Product Catalogue | edition 12 vol. 2

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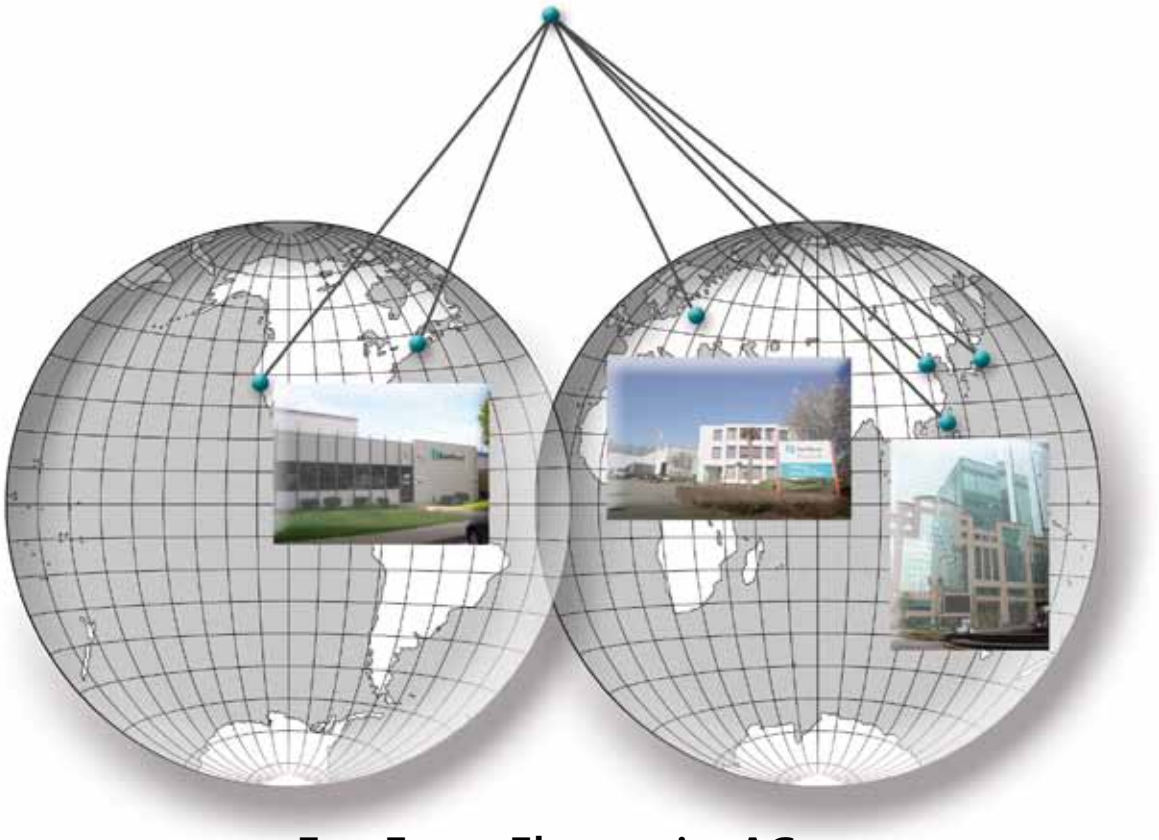

EverFocus Electronics AG

Albert-Einstein-Straße 1 ❖ D-46446 Emmerich am Rhein

Fon: +49 (0) 28 22 - 93 94-0 ❖ Fax: +49 (0) 28 22 - 93 94 -95

info@everfocus.de ❖ www.everfocus.de

Focused on you!

With more than 15 years experience as a renowned manufacturer of excellent CCTV products, EverFocus offers a comprehensive product range geared to system integration.
EverFocus Electronics Corp. with residence in Taipei, Taiwan, guarantees the worldwide distribution of CCTV products through branch offices in China, India, Japan, USA and Europe. The European distribution centre, EverFocus Electronics AG, is located in Emmerich am Rhein, Germany, where our team is dedicated to fulfilling customer demands. Sometimes even the impossible ones. That's how we ensure your satisfaction. We offer you mutual success, a pleasant cooperation and a promise:

We are here for you.

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CCTV Products

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For EverFocus NeVio IP products, please refer to the "NeVio Product Catalogue Edition 12 vol.2"

Technical data are subject to change without prior notice. Misprints reserved.

EQ 610 T - 8,5 mm (1/3") day/night camera with WDR, high resolution, automatic IR cut filter
EQ 610 D - 8,5 mm (1/3") day/night camera with WDR, high resolution, static IR cut filter

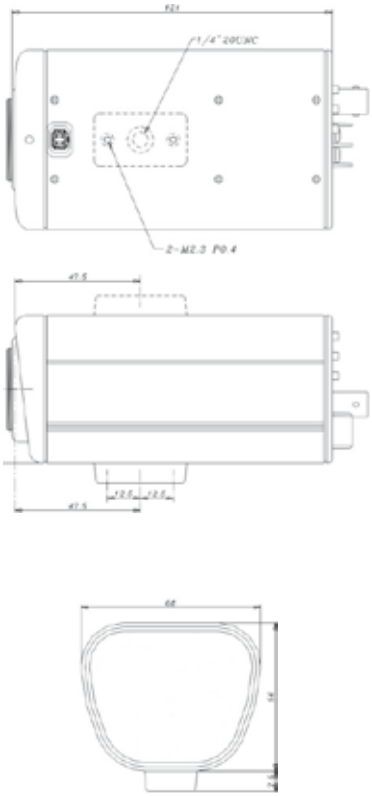
Features

- ✓ super-high resolution technology (560 TV lines)
- ✓ built-in 3D noise reduction
- ✓ day/night function with automatically swiveling IR cut filter (EQ 610 T)
- ✓ optimized for correction of focus shift with IR illumination (EQ 610 T)
- ✓ static IR cut filter, optimized for applications without IR lamps (EQ 610 D)
- ✓ super HAD II sensor with 5x better native light sensitivity
- ✓ on-screen programming with local or RS-485 remote control
- ✓ 8 adjustable privacy zones
- ✓ motion detection with 4 adjustable zones
- ✓ digital Wide Dynamic Range for properly exposed images
- ✓ up to 32x digital zoom
- ✓ support of both C-mount and CS-mount lenses

Illustration: EQ 610 with lens - lens not included!

Technical data

	EQ 610 T	EQ 610 D
Sensor	8,5 mm (1/3") SONY Super HAD II CCD	
Picture element	752 (H) x 582 (V) (PAL)	
Horizontal resolution	560 TV lines	
Sensitivity	0,002 lux (sens-up x256), 0,05 lux / F = 1.2 (AGC on)	
S/N ratio	> 52 dB (AGC off)	
Gamma correction	0,45	
OSD	yes, with multiple functions; local or RS-485 remote control	
Day/night control EQ 610 T	automatically swiveling IR cut filter and enhanced b/w sensitivity	
Day/night control EQ 610 D	automatic colour-b/w switching, 2 sensitivity levels / off	
IR cut filter automatic swivel control (EQ 610 T)	auto / colour / b/w / EXT (external light sensor)	
External light sensor (EQ 610 T)	optional (3,5mm jack)	
Lens selection	direct drive (DC) / manual (lens not included)	
Electronic shutter	1/50 ~ 1/100.000	
Back light compensation	off / BLC / HS BLC	
White balance	ATW / AWB / AWC / manual / indoor / outdoor	
AGC	off / low / middle / high	
3D DNR (Dynamic Noise Reduction)	on / off, adjustable level	
Digital WDR (Wide Dynamic Range)	outdoor / indoor	
Digital slow shutter	off / auto: x2 ~ x256 selectable	
Mirror	off / mirror / V-flip / rotate	
Digital zoom	on / off, up to 32x	
Motion detection	on / off, 4 adjustable zones	
Motion alarm output	1 output (3,3 V DC)	
Video output	BNC, 1,0 Vp-p, 75 Ohm	
Sync. mode	internal / line lock	
Privacy zones	on / off, 8 adjustable zones	
Serial interface	RS-485 (Protocols: EverFocus / Pelco-D) for menu / configuration	
Power source	EQ 610 T A/P: 12 V DC / 24 V AC EQ 610 T / P: 100 ~ 240 V AC	EQ 610 D A/P: 12 V DC / 24 V AC EQ 610 D / P: 100 ~ 240 V AC
Power consumption	EQ 610 T A/P: 3 W EQ 610 T / P: 5 W	EQ 610 D A/P: 3 W EQ 610 D / P: 5 W
Ambient temperature	0°C ~ +50°C	
Humidity	20% ~ 80% non condensing	
Dimensions (WxHxD)	68 x 56 x 120 mm	
Weight	400 g	



Ordering information

EQ 610 T A/P	8,5 mm (1/3") day/night camera with WDR, w/o lens, high resolution, automatic IR cut filter, 12 V DC / 24 V AC
EQ 610 T / P	8,5 mm (1/3") day/night camera with WDR, w/o lens, high resolution, automatic IR cut filter, 100 ~ 240 V AC
EQ 610 D A/P	8,5 mm (1/3") day/night camera with WDR, w/o lens, high resolution, static IR cut filter, 12 V DC / 24 V AC
EQ 610 D / P	8,5 mm (1/3") day/night camera with WDR, w/o lens, high resolution, static IR cut filter, 100 ~ 240 V AC
AP12A122E0	Power supply 230 V AC / 12 V DC, 600 mA, stabilized, switched

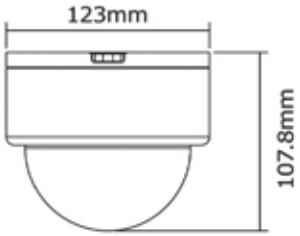
ED 610 T - 8,5 mm (1/3") vandal-proof outdoor day/night dome camera with WDR, automatic IR cut filter

Features

- ✓ vandal-proof IP66 outdoor housing
- ✓ super-high resolution technology (560 TV lines)
- ✓ built-in 3D noise reduction
- ✓ day/night function with automatically swiveling IR cut filter
- ✓ super HAD II sensor with 5x better native light sensitivity
- ✓ on-screen programming
- ✓ 8 adjustable privacy zones
- ✓ motion detection with 4 adjustable zones
- ✓ digital Wide Dynamic Range for properly exposed images
- ✓ up to 32x digital zoom
- ✓ 3-axis positioning for wall or ceiling mounting with flexible viewing angle
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY Super HAD II CCD
Picture element	752 (H) x 582 (V) (PAL)
Horizontal resolution	560 TV lines
Sensitivity	0,002 lux (sens-up x256), 0,05 lux / F = 1.2
S/N ratio	> 52 dB (AGC off)
Gamma correction	0,45
OSD	yes, with multiple functions
Day/night control	automatically swiveling IR cut filter and enhanced b/w sensitivity
IR cut filter control	auto / colour / b/w / EXT (external light sensor)
Lens	2,8 ~ 10mm direct drive (DC), IR-corrected, ED glass, auto IR cut filter
Electronic shutter	1/50 ~ 1/100.000
Back light compensation	off / BLC / HS BLC
White balance	ATW / AWB / AWC / manual / indoor / outdoor
AGC	off / low / middle / high
3D DNR (Dynamic Noise Reduction)	on / off, adjustable level
Digital WDR (Wide Dynamic Range)	outdoor / indoor
Digital slow shutter	off / auto: x2 ~ x256 selectable
Mirror	off / mirror / V-flip / rotate
Digital zoom	on / off, up to 32x
Motion detection	on / off, 4 adjustable zones
Privacy zones	on / off, 8 adjustable zones
Video output	BNC, 1,0 Vp-p, 75 Ohm; test video output 1,0 Vp-p, 75 Ohm
Synchronisation	internal / line lock
Weatherproof rating	IP66
Power source	12 V DC / 24 V AC
Power consumption	3 W max. at 12 V DC; 3 W max. at 24 V AC
Ambient temperature	-10°C ~ +50°C
Dimensions (diameter x H)	123 x 107,8 mm
Weight	740 g



ED WMA - wall mount bracket

Material: aluminium
Dimensions (WxHxD): 150 x 110 x 170 mm
Weight: 600 g
Max. load: 4 kg
Application: with ED 610 T, EDN 850 H and EDN 800 T

Ordering information

ED 610 T / P	8,5 mm (1/3") vandal-proof outdoor day/night camera with WDR, automatic IR cut filter, 12 V DC / 24 V AC
ED WMA	Wall mount bracket
AP12A122E0	Power supply 230 V AC / 12 V DC, 600 mA, stabilized, switched

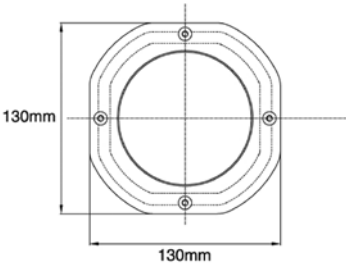
EHD 525 EX - 8,5 mm (1/3") day/night rugged dome camera, high resolution, automatic IR cut filter

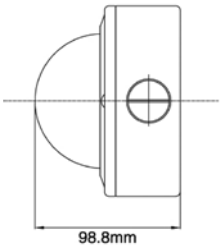
Features

- ✓ vandal-proof outdoor housing
- ✓ high resolution technology (520 TV lines)
- ✓ Sony Exview™ CCD sensor
- ✓ day/night function with automatically swiveling IR cut filter
- ✓ integrated tamper contact (micro switch)
- ✓ integrated DC varifocal lens (f=3,6~9mm)
- ✓ integrated heater
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY Exview™ CCD
Picture element	752 (H) x 582 (V)
Horizontal resolution	520 TV lines
Sensitivity	0,5 lux / F = 1.2 colour / 0,1 lux / F = 1.2 b/w
S/N ratio	over 48 dB
Gamma correction	0,45
Day/night control	automatically swiveling IR cut filter
Video output	1 Vp-p composite PAL
Synchronisation	internal / line-lock (only 24 V AC)
Line-lock (24 V AC)	on / off
Back light compensation	on / off
Auto white balance	yes
AGC	on / off
Electronic shutter	1:50 ~ 1:100.000
Tamper contact	micro switch
Lens	DC varifocal lens, f = 3,6 ~ 9 mm
Heater	thermostat controlled
Heater activating temperature	+10°C
Casing	zink diecasted, dome polycarbonate, clear
Weatherproof rating	IP 66
Power source	12 V DC +/- 10%, 24 V AC +/- 10%
Power consumption	5 W max. (15 W with activated heater)
Ambient temperature	-40°C ~ +50°C
Dimensions (WxHxD)	130 x 130 x 99 mm
Weight	1,7 kg





EHD WMA - wall mount bracket

Material: aluminium
Dimensions (WxHxD): 150 x 110 x 170 mm
Weight: 600 g
Max. load: 4 kg
Application: with EHD camera series

Ordering information

EHD 525 EX / P	8,5 mm (1/3") day / night rugged dome camera, high resolution, automatic IR cut filter, 12 V DC / 24 V AC
EHD WMA	Wall mount bracket
AP12D152E1	Power supply 230 V AC / 12 V DC, 1.500 mA

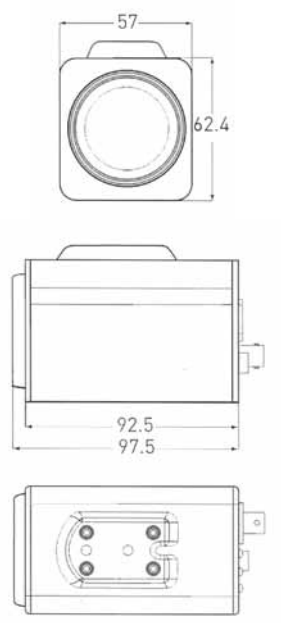
EQ 2700 - 6,35 mm (1/4") day / night camera with 27x motorzoom lens, high resolution, automatic IR cut filter

Features

- ✓ 27x optical and 10x digital zoom
- ✓ automatic IR cut filter
- ✓ high infrared sensitivity
- ✓ aspherical zoom lens
- ✓ integrated motion detection
- ✓ WDR - Wide Dynamic range
- ✓ DSS - enhanced light sensitivity with Digital Slow Shutter function
- ✓ remote control with RS-485 interface and DC lens remote control (zoom / focus)

Technical data

Signal system	PAL
Scanning system	2:1 interlaced
Scanning frequency (H)	15.625 KHz
Scanning frequency (V)	50 Hz
Sensor	6,35 mm (1/4") CCD
Total pixels no.	795 (H) x 596 (V), 470 K
Effective pixels no.	752 (H) x 582 (V), 440 K
S/N ratio	over 48 dB
Horizontal resolution	more than 450 TV lines
Lens	aspherical 27x zoom, f = 3,25 ~ 88,0 mm; F 1.5 (W), F 3.8 (T) Video AF
Minimum autofocus distance	WIDE 0,01 m, TELE 1,0 m
Minimum illumination	1 lux (30 IRE), AGC on; 0,01 lux with DSS digital slow shutter, 0,05 lux night mode
Digital zoom	10x (total zoom ratio x270)
Synchronisation	internal
Electronic shutter	1:50 ~ 1:10.000
Video output	1 Vp-p composite PAL, BNC S-video mini DIN
Camera control	local, DC control (for zoom/focus), RS-485 (for EKB 500 control)
Zoom speed	3 sec.
Zoom / focus preset	64
Zoom mode	manual, push auto, auto
Power source	12 V DC
Power consumption	5,3 W max.
Ambient temperature	0°C ~ +45°C
Operating humidity	0% RH ~ 60% RH
Dimensions (WxHxD)	57 x 62,4 x 97,5 mm
Weight	330 g



Last chance! Phase-out item, delivery as long as stocks last!

Ordering information

EQ 2700 / P	6,35 mm (1/4") day / night camera with 27x motorzoom lens, high resolution, automatic IR cut filter, 12 V DC
AP12A122E0	Power supply 230 V AC / 12 V DC, 600 mA, stabilized, switched

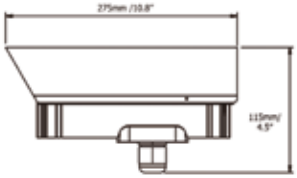
EZ 650 - 8,5 mm (1/3") outdoor long range IR camera with motorised 6~50mm lens, automatic IR cut filter

Features

- ✓ excellent video resolution (560 TV lines)
- ✓ day / night function with automatically swiveling IR cut filter
- ✓ built-in motorised 6~50mm DC varifocal lens
- ✓ integrated 3D DNR (Dynamic Noise Reduction)
- ✓ integrated Wide Dynamic Range
- ✓ advanced 16-bit digital signal processor (DSP)
- ✓ IR distance up to 50 m (up to 70 m with EIR 100 illuminator kit)
- ✓ integrated motion detection with 4 zones
- ✓ 8 adjustable privacy zones
- ✓ RS-485 interface
- ✓ automatic detection of integrated protocols (EverFocus / Pelco-D)
- ✓ integrated wall bracket

Technical data

	EZ 650 / P	EZ 650 A / P
Pickup device	8,5 mm (1/3") SONY super HAD II interlaced CCD	
Effective pixels	752 x 582 (PAL)	
Sensitivity	IR LED OFF: 0,05 lux / F = 1.2; IR LED ON: 0 lux	
Lens	motorised DC varifocal lens 6~50 mm, F = 1.6	
Video output	BNC socket, composite 1 Vp-p / 75 Ohm	
Video output resolution	560 TV lines	
IR distance	max. 30 ~ 50 m (depending on reflections in scenery) max. 40 ~ 70 m with additional IR illuminator kit EIR 100	
IR wavelength	850 nm	
Day/night control	automatically swiveling IR cut filter and enhanced b/w sensitivity	
Motion detection	built-in motion detection, 4 zones	
Privacy zones	on / off (8 zones, position / size / tone)	
RS-485	RS-485 interface half-duplex	
Protocol	EverFocus, Pelco-D (auto-detection)	
Digital slow shutter	off / auto: x2 ~ x256 selectable	
Wide Dynamic Range	indoor / outdoor mode	
Weatherproof rating	IP 66	
Power supply	100 ~ 240 V AC, 50/60 Hz	24 V AC
Power consumption	15 W max. (IR LED ON), 32 W max. with EIR 100	
Power output	DC 12 V / 1,5 A for external IR illuminator	
Ambient temperature	-40°C ~ +50°C	
Humidity	20 ~ 85%	
Dimensions (HxL)	115 x 275 mm	
Weight	1,6 kg	



EZ CMB - ceiling mount bracket

Material: aluminium
Dimensions (WxH): 235 x 280 mm
Ceiling mounting plate: 80 x 120 mm
Weight: 800 g
Max. load: 10 kg
Application: with EZ 650 and EZN 850

Image: EZ 650 with additional IR illuminator kit EIR 100

Ordering information

EZ 650 / P	8,5 mm (1/3") outdoor long range IR camera with motorised 6~50 mm lens, 100 ~ 240 V AC
EZ 650 A / P	8,5 mm (1/3") outdoor long range IR camera with motorised 6~50 mm lens, 24 V AC
EIR 100	External IR illuminator kit
EZ CMB	Ceiling mount bracket for EZ 650 and EZN 850
AP24A152E0	Power supply, 230 V AC / 24 V AC, 1,5 A, recommended for use w/o additional IR illuminator kit EIR 100
AP24A302E1	Power supply, 230 V AC / 24 V AC, 3A, recommended for use with additional IR illuminator kit EIR 100

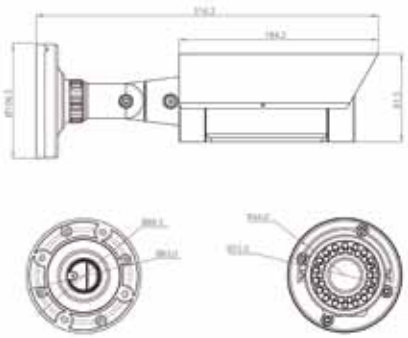
EZ 630 - 8,5 mm (1/3") outdoor bullet IR camera with motorised varifocal lens and WDR, automatic IR cut filter

Features

- ✓ super-high resolution technology (560 TV lines)
- ✓ built-in 3D noise reduction
- ✓ day/night function with automatically swiveling IR cut filter
- ✓ super HAD II sensor with 5x better native light sensitivity
- ✓ on-screen programming with local or RS-485 remote control
- ✓ built-in motorised varifocal lens (2,8~10mm or 9~22mm)
- ✓ vandal-proof IP 66 outdoor housing
- ✓ additional video test point output
- ✓ 8 adjustable privacy zones
- ✓ motion detection with 4 adjustable zones
- ✓ digital Wide Dynamic Range for properly exposed images
- ✓ integrated wall bracket

Technical data

	EZ 630 V1	EZ 630 V2
Pickup device	8,5 mm (1/3") SONY super HAD II CCD	
Picture element	752 x 582 (PAL)	
Horizontal resolution	560 TV lines	
Sensitivity	0,05 lux / F = 1.2 (AGC on), 0,002 lux (sens-up x256), 0 lux (IR LED on)	
Lens	motorised DC varifocal lens 2,8~10mm, F = 1.2	motorised DC varifocal lens 9 ~ 22 mm, F = 1.2
Video output	BNC VBS, 1 Vp-p / 75 Ohm, additional test output (cable incl.)	
Recommended object distance	max. 15 ~ 40 m (depending on reflections in scenery)	
IR wavelength	850 nm	
S/N ratio	over 52 dB (AGC OFF)	
Gamma correction	0,45	
OSD	yes, with multiple functions; local or RS-485 remote control	
Day/night control	automatically swiveling IR cut filter and enhanced b/w sensitivity	
Back light compensation	off / BLC / HS BLC	
White balance	ATW / AWB / AWC / manual / indoor / outdoor	
AGC	off / low / middle / high	
3D DNR (Dynamic Noise Reduction)	on / off, adjustable level	
Digital WDR (Wide Dynamic Range)	outdoor / indoor	
Digital slow shutter	off / auto: x2 ~ x256 selectable	
Mirror	off / mirror / V-flip / rotate	
Digital zoom	on / off, up to 32x	
Motion detection	on / off, 4 adjustable zones	
Synchronisation	internal / line lock	
Privacy zones	on / off, 8 adjustable zones	
Serial interface	RS-485 (protocols: EverFocus / Pelco-D) for menu / configuration	
Weatherproof rating	IP 66	
Heater	built-in heater	
Power source	12 V DC / 24 V AC	
Power consumption	12 V DC: 2,5 W max. (10 W max. with heater & IR LED on) 24 V AC: 3 W max. (12 W max. with heater & IR LED on)	
Ambient temperature	-40°C ~ +50°C	
Dimensions (LxH)	316 x 81,5 mm	
Weight	1,25 kg	
Mounting	separate base plate for fast mounting included	



* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

EZ 630 / P-V1	8,5 mm (1/3") outdoor bullet IR camera with WDR and motorised varifocal lens 2,8 ~ 10 mm, 12 V DC / 24 V AC
EZ 630 / P-V2	8,5 mm (1/3") outdoor bullet IR camera with WDR and motorised varifocal lens 9 ~ 22 mm, 12 V DC / 24 V AC
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA

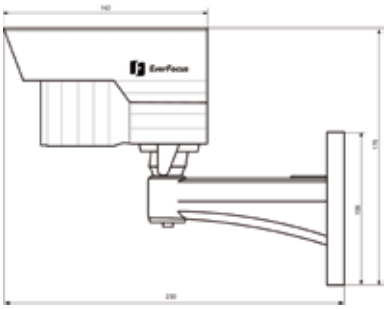
EZ 425 - 8,5 mm (1/3") outdoor day / night camera with IR LED

Features

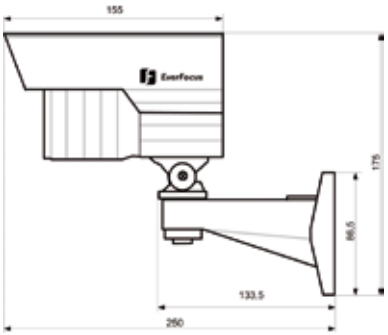
- ✓ high resolution (520 TV lines)
- ✓ 48 powerful IR LED
- ✓ IR range 10 ~ 25 m
- ✓ multiline OSD with key control at camera back panel
- ✓ built-in varifocal lens (zoom/focus outside adjustable)
- ✓ automatic or manual day/night control
- ✓ 4 adjustable privacy zones
- ✓ 8x8 zone motion detection with adjustable sensitivity
- ✓ IP65 weatherproof outdoor housing
- ✓ integrated wall bracket

Technical data

	EZ 425 P V1	EZ 425 P V2
Sensor	8,5 mm (1/3") SONY IT CCD	
Picture element	752 x 582 (PAL)	
Horizontal resolution	520 TV lines	
Sensitivity	0,4 lux (colour mode) / 0 lux (b/w mode)	
IR illumination	48 IR LED	
Recommended object distance range	10 ~ 25 m (depending on reflections in scenery)	
S/N ratio	> 60 dB (AGC off)	
Gamma correction	0,05 ~ 1 adjustable	
On-screen display	multiline OSD with key control (camera back panel)	
Day/night control	automatic (adjustable delay and level on/off) / manual	
Lens	varifocal lens 3~8mm (zoom/focus outside adjustable), F=1,4~C, manual iris	varifocal lens 6~15mm (zoom/focus outside adjustable), F=1,4~C, manual iris
Horizontal field of view	76° (f=3mm) ~ 33° (f=8mm)	44° (f=6mm) ~ 18° (f=15mm)
Electronic shutter	1/50 ~ 1/100.000, automatic / manual / flickerless	
Back light compensation	on/off (adjustable level and BLC area 8x8 zones)	
White balance	ATW / AWC / 4x fixed mode / manual	
AGC	0~40 dB adjustable	
Camera title	on (16 characters, adjustable position) / off	
Privacy zones	on/off (4 zones, position / size / tone)	
Motion detection	on (8x8 zones, adjustable sensitivity) / off	
Horizontal mirror	on/off	
Picture adjustment	brightness / contrast / red/blue gain	
Video output	BNC VBS, 1 Vp-p / 75 Ohm	
Synchronisation	internal	
Weatherproof rating	IP65	
Power source	12 V DC +/- 0,5V	
Power consumption	0,15 A (IR off) max.; 0,55 A (IR on) max.	
Ambient temperature	-20°C ~ +50°C	
Dimensions (WxHxD)	77 x 75 x 142 mm (with sunshield / w/o bracket)	88,5 x 84 x 155 mm (with sunshield / w/o bracket)
Weight	980 g	



Drawing: EZ 425 / P V1



Drawing: EZ 425 / P V2

* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

EZ 425 / P V1	8,5 mm (1/3") outdoor day / night camera with IR LED, incl. DC varifocal lens 3 ~ 8 mm, 12 V DC
EZ 425 / P V2	8,5 mm (1/3") outdoor day / night camera with IR LED, incl. DC varifocal lens 6 ~ 15 mm, 12 V DC
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA

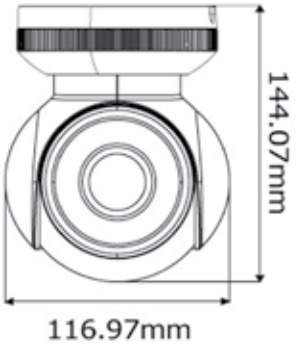
EBD 430 - 8,5 mm (1/3") vandal-proof outdoor day / night 3-axis dome camera with IR LED and varifocal lens, high resolution, automatic IR cut filter

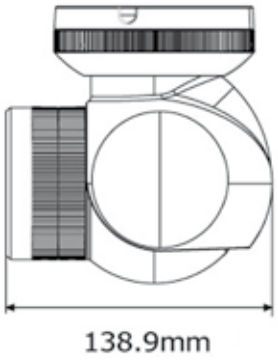
Features

- ✓ high resolution technology (520 TV lines)
- ✓ IR range up to 30 m
- ✓ splitted front glass for low internal IR reflection
- ✓ vandal-proof and IP 66 weatherproof casing
- ✓ zoom and focus outside adjustable
- ✓ 3-axis rotation for flexible viewing angle

Technical data

	EBD 430 V3	EBD 430 V2
Sensor	8,5 mm (1/3") SONY Super HAD CCD II	
Picture element	752 x 582 (PAL)	
Horizontal resolution	520 TV lines	
Sensitivity	0,08 lux / F = 1.2 (IR LED off), 0 lux (IR LED on)	
IR LED wavelength	850 nm	
IR LED lifetime	up to 20.000 h	
IR range	up to 30 m	
Video output	1 Vp-p composite, BNC	
S/N ratio	over 48 dB (AGC off)	
Gamma correction	0,45	
Back light compensation	yes	
Auto white balance	yes (2500°K ~ 9000°K)	
AGC	yes	
Synchronisation	internal	
Electronic shutter	1:50 ~ 1:100.000	
Lens	DC varifocal lens f = 2,9 ~ 10 mm	DC varifocal lens f = 9 ~ 22 mm
Day/night switching	automatically swiveling IR cut filter	
Heater	built-in heater	
Weatherproof rating	IP 66	
Power source	12 V DC / 24 V AC	
Power consumption	12 V DC: 9 W max. / 24 V AC: 9,5 W max. (heater & IR LED on)	
Ambient temperature	-40°C ~ +50°C	
Humidity	20 ~80%	
Dimensions (WxHxD)	117 x 144 x 139 mm	
Weight	1,3 kg	





* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

EBD 430 / P-V3	8,5 mm (1/3") vandal-proof outdoor day/night 3-axis dome camera with IR LED and varifocal lens 2,9 ~ 10 mm, high resolution, automatic IR cut filter, 12 V DC / 24 V AC
EBD 430 / P-V2	8,5 mm (1/3") vandal-proof outdoor day/night 3-axis dome camera with IR LED and varifocal lens 9 ~ 22 mm, high resolution, automatic IR cut filter, 12 V DC / 24 V AC
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA

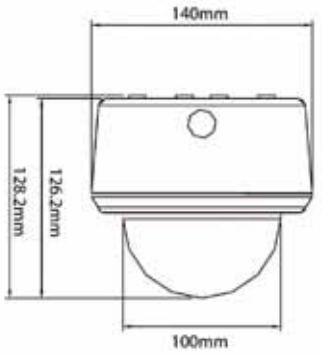
ED 335 - 8,5 mm (1/3") indoor day / night 3-axis dome camera with IR LED, high resolution, automatic IR cut filter

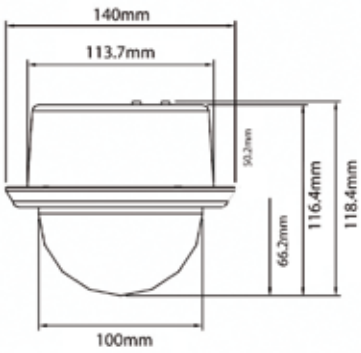
Features

- ✓ high resolution technology (520 TV lines)
- ✓ IR range up to 20 m
- ✓ integrated DC varifocal lens (f=2,8 ~ 10 mm)
- ✓ 3-axis rotation for flexible viewing angle
- ✓ mounting options for surface or flush mounting
- ✓ day/night switching with automatic IR cut filter
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY Super HAD CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	0,4 lux / F = 1.2 (AGC on), 0 lux (IR LED on)
Video output	1 Vp-p composite PAL, BNC, test video output 1,0 Vp-p, 75 Ohm
Day/night switching	automatically swiveling IR cut filter
IR LED wavelength	850 nm
IR LED lifetime	up to 20.000 h
IR range	up to 20 m, depending on reflections in scenery
S/N ratio	over 48 dB (AGC off)
Gamma correction	> 0,45
Synchronisation	internal
Back light compensation	yes
Auto white balance	yes
AGC	yes
Electronic shutter	1:50 ~ 1:100.000
Lens	DC varifocal lens, f= 2,8 ~ 10 mm
Mounting	surface or flush (in-ceiling) mounting
Power source	12 V DC / 24 V AC
Power consumption	12 V DC: 6 W max., 24 V AC: 6,5 W max.
Ambient temperature	0°C ~ +40°C
Dimensions (diameter x H)	140 x 128 mm (surface mounting) / 140 x 68 mm (flush mounting)
Weight	660 g





* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

ED WMA 02 - wall mount bracket

Material: aluminium
Dimensions (WxHxD): 150 x 110 x 170 mm
Weight: 600 g
Max. load: 4 kg
Application: with ED 335

Ordering information

ED 335 / P	8,5 mm (1/3") indoor day/night 3-axis dome camera with IR LED, high resolution, automatic IR cut filter, 12 V DC / 24 V AC
ED WMA 02	Wall mount bracket
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

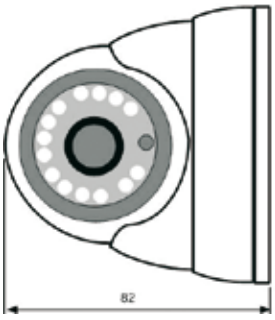
EBD 330 A - 8,5 mm (1/3") day / night camera with IR LED, high resolution

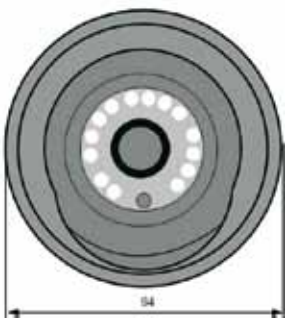
Features

- ✓ high resolution technology (480 TV lines)
- ✓ 20 powerful IR LED, controlled by internal twilight switch
- ✓ splitted front glass for low internal IR reflection
- ✓ IP 66 weatherproof rating
- ✓ anthracite or white casing available
- ✓ IR distance up to 20 m
- ✓ 3-axis adjustment of camera module

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	480 TV lines
Sensitivity	0,5 lux / F = 1.2 (IR LED off)
IR LED	20x, controlled by internal twilight switch, splitted front glass for low internal IR reflection
IR LED lifetime	up to 50.000 h
IR range	5 ~ 20 m*
Video output	1 Vp-p composite PAL
S/N ratio	over 48 dB
Gamma correction	0,45
Back light compensation	yes
Auto white balance	yes
AGC	yes
Synchronisation	internal
Electronic shutter	1:50 ~ 1:100.000
Lens	3,6 mm / F2, M12 x P0,5
Mounting	ceiling or wall mounting, 3-axis adjustment of camera module
Casing	aluminium, colour white or anthracite
Weatherproof rating	IP 66
Power source	12 V DC +/- 10%
Power consumption	6W max.
Ambient temperature	-10°C ~ +50°C
Dimensions (diameter x H)	94 x 82 mm
Weight	450 g





* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

EBD 330 A / W	8,5 mm (1/3") day / night camera with IR LED, high resolution, 12 V DC, colour casing: white
EBD 330 A / B	8,5 mm (1/3") day / night camera with IR LED, high resolution, 12 V DC, colour casing: anthracite
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

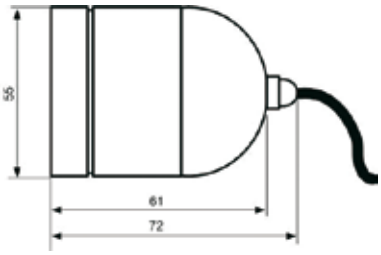
ECZ 330 E - 8,5 mm (1/3") day / night camera with IR LED, high resolution
ECZ 230 E - 8,5 mm (1/3") day / night camera with IR LED, standard resolution

Features

- ✓ 14 powerful IR LED, video signal controlled variable LED power
- ✓ splitted front glass for low internal IR reflection
- ✓ IR range 5 ~ 20 m
- ✓ IP66 weatherproof outdoor housing
- ✓ integrated wall bracket
- ✓ mounting hole at lower and upper side for camera bracket

Technical data

	ECZ 330 E	ECZ 230 E
Sensor	8,5 mm (1/3") SONY IT CCD	
Picture element	752 x 582 (PAL)	500 x 582 (PAL)
Horizontal resolution	520 TV lines	380 TV lines
Sensitivity	0,5 lux / F = 1.2 (IR LED off)	0,3 lux / F = 1.2 (IR LED off)
IR LED	14x, video signal controlled variable LED power, splitted front glass for low internal IR reflection	
IR LED lifetime	up to 50.000 h	
IR range	5~20 m*	
Video output	1 Vp-p composite PAL	
S/N ratio	over 48 dB	
Gamma correction	0,45	
Synchronisation	internal	
Back light compensation	yes	
Auto white balance	yes	
AGC	yes	
Electronic shutter	auto 1:50 ~ 1:100.000	
Lens	4,3mm / F2, M12 x P0,5	
Mounting	6,35 mm (1/4") mounting hole at lower and upper side for camera bracket (incl.)	
Casing	aluminium	
Weatherproof rating	IP66	
Power source	12 V DC +/- 10%	
Power consumption	6W max.	
Ambient temperature	-10°C ~ +50°C	
Dimensions without sunshield (diameterxD)	55 x 72 mm	
Dimensions with sunshield (WxHxD)	62 x 58,5 x 82 mm	
Weight	245 g	



* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

ECZ 330 E / P	8,5 mm (1/3") day / night camera with IR LED, high resolution, 12 V DC
ECZ 230 E / P	8,5 mm (1/3") day / night camera with IR LED, standard resolution, 12 V DC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

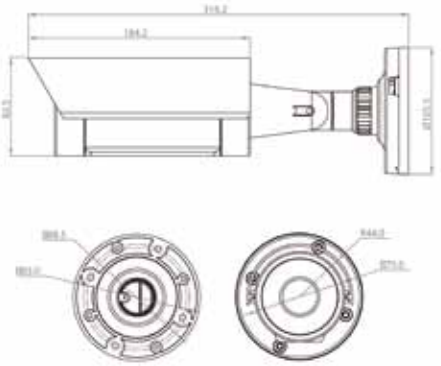
EZ 610 - 8,5 mm (1/3") outdoor bullet camera with motorised varifocal lens and WDR, automatic IR cut filter

Features

- ✓ super-high resolution technology (560 TV lines)
- ✓ built-in 3D noise reduction
- ✓ day/night function with automatically swiveling IR cut filter
- ✓ super HAD II sensor with 5x better native light sensitivity
- ✓ on-screen programming with local or RS-485 remote control
- ✓ built-in motorised varifocal lens (2,8~10mm or 9~22mm)
- ✓ vandal-proof IP 66 outdoor housing
- ✓ additional video test point output
- ✓ 8 adjustable privacy zones
- ✓ motion detection with 4 adjustable zones
- ✓ digital Wide Dynamic Range for properly exposed images
- ✓ integrated wall bracket

Technical data

	EZ 610 V1	EZ 610 V2
Pickup device	8,5 mm (1/3") SONY super HAD II CCD	
Picture element	752 x 582 (PAL)	
Horizontal resolution	560 TV lines	
Sensitivity	0,05 lux / F = 1.2 (AGC on), 0,002 lux (sens-up x256)	
Lens	motorised DC varifocal lens 2,8~10mm, F = 1.2	motorised DC varifocal lens 9 ~ 22 mm, F = 1.2
Video output	BNC VBS, 1 Vp-p / 75 Ohm, additional test output (cable incl.)	
S/N ratio	over 52 dB (AGC OFF)	
Gamma correction	0,45	
OSD	yes, with multiple functions; local or RS-485 remote control	
Day/night control	automatically swiveling IR cut filter and enhanced b/w sensitivity	
Back light compensation	off / BLC / HS BLC	
White balance	ATW / AWB / AWC / manual / indoor / outdoor	
AGC	off / low / middle / high	
3D DNR (Dynamic Noise Reduction)	on / off, adjustable level	
Digital WDR (Wide Dynamic Range)	outdoor / indoor	
Digital slow shutter	off / auto: x2 ~ x256 selectable	
Mirror	off / mirror / V-flip / rotate	
Digital zoom	on / off, up to 32x	
Motion detection	on / off, 4 adjustable zones	
Synchronisation	internal / line lock	
Privacy zones	on / off, 8 adjustable zones	
Serial interface	RS-485 (protocols: EverFocus / Pelco-D) for menu / configuration	
Weatherproof rating	IP 66	
Heater	built-in heater	
Power source	12 V DC / 24 V AC	
Power consumption	3W max.	
Ambient temperature	-40°C ~ +50°C	
Humidity	20% ~ 80%	
Dimensions (LxH)	316 x 81,5 mm	
Weight	1,25 kg	
Mounting	separate base plate for fast mounting included	



Ordering information

EZ 610 / P-V1	8,5 mm (1/3") outdoor bullet camera with WDR and motorised varifocal lens 2,8 ~ 10 mm, 12 V DC / 24 V AC
EZ 610 / P-V2	8,5 mm (1/3") outdoor bullet camera with WDR and motorised varifocal lens 9 ~ 22 mm, 12 V DC / 24 V AC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

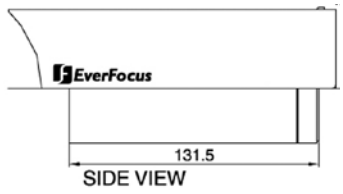
EZ 350 HQ - 8,5 mm (1/3") weatherproof colour camera, high resolution

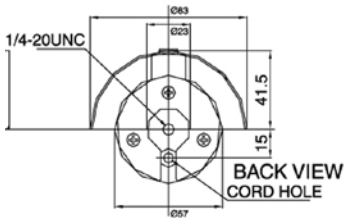
Features

- ✓ high resolution technology (520 TV lines)
- ✓ integrated 3,8~9,5mm DC varifocal lens (IR-corrected)
- ✓ integrated thermostat-controlled heater
- ✓ IP 66 weatherproof rating
- ✓ integrated wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	0,5 lux / F = 1.2
Video output	1 Vp-p composite PAL
S/N ratio	over 48 dB
Gamma correction	> 0,45
Back light compensation	on/off
Auto white balance	yes
AGC	on/off
Synchronisation	internal or line-lock with V-setup (24 V AC)
Electronic shutter	on / off, 1:50 ~ 1:100.000
Flickerless function	on / off
Lens	DC varifocal lens 3,8 ~ 9,5mm (IR-corrected)
Heater	thermostat-controlled
Heater activating temperature	+10°C
Weatherproof rating	IP 66
Power source	12 V DC / 24 V AC
Power consumption	5W max, 12W with activated heater
Ambient temperature	-35°C ~ +50°C (at 12 V DC) / -40°C ~ +50°C (at 24 V AC)
Dimensions without sunshield (WxHxD)	57 x 57 x 132 mm
Dimensions with sunshield (WxHxD)	83 x 70 x 172 mm
Bracket	zink diecasted, silver colour, included
Weight	1,1 kg





Ordering information

EZ 350 HQ / P-V1	8,5 mm (1/3") weatherproof colour camera, high resolution, 12 V DC / 24 V AC
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA

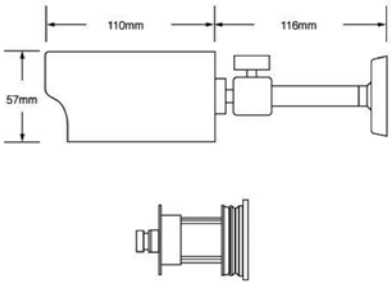
EZ 200 E - 8,5 mm (1/3") weatherproof colour camera, standard resolution

Features

- ✓ IP66 weatherproof outdoor housing
- ✓ integrated wall bracket
- ✓ back light compensation and auto white balance

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	500 x 582 (PAL)
Horizontal resolution	340 TV lines
Sensitivity	0,3 lux / F = 1.2
S/N ratio	over 48 dB
Video output	1 Vp-p composite PAL
Gamma correction	> 0,45
Synchronisation	internal
Back light compensation	yes
Auto white balance	yes
AGC	yes
Electronic shutter	1:50 ~ 1:100.000
Lens	f = 4,3 mm (further lenses see table page 35)
Lens mount	M12 x P 0,5
Weatherproof rating	IP 66
Power source	12 V DC +/- 10%, 200 mA
Ambient temperature	-10°C ~ +50°C
Dimensions (diameter x L)	57 x 110 mm
Bracket	zink diecasted, silver colour, included
Weight	385 g



Ordering information

EZ 200 E / P-4	8,5 mm (1/3") weatherproof colour camera, standard resolution, 12 V DC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

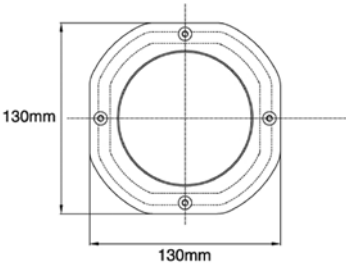
EHD 350 HQ - 8,5 mm (1/3") colour rugged dome camera, high resolution

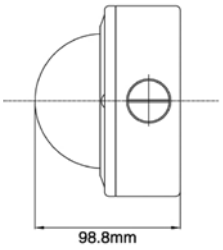
Features

- ✓ vandal-proof outdoor housing
- ✓ high resolution technology (520 TV lines)
- ✓ integrated tamper contact (micro switch)
- ✓ integrated DC varifocal lens (f=3,8~9,5mm, IR-corrected)
- ✓ integrated heater
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	0,5 lux / F = 1.2
Video output	1 Vp-p composite PAL
S/N ratio	over 48 dB
Gamma correction	0,45
Synchronisation	internal / line-lock (only 24 V AC)
Line-lock (24 V AC)	on / off
Back light compensation	on / off
Auto white balance	yes
AGC	on / off
Electronic shutter	1:50 ~ 1:100.000
Tamper contact	micro switch
Lens	DC varifocal lens, f = 3,8 ~ 9,5 mm (IR-corrected)
Heater	thermostat controlled
Heater activating temperature	+10°C
Casing	zink diecasted, dome polycarbonate, clear
Weatherproof rating	IP 66
Power source	12 V DC +/- 10%, 24 V AC +/- 10%
Power consumption	5 W max. (15 W with activated heater)
Ambient temperature	-40°C ~ +50°C
Dimensions (WxHxD)	130 x 130 x 99 mm
Weight	1,7 kg





EHD WMA - wall mount bracket

Material: aluminium
Dimensions (WxHxD): 150 x 110 x 170 mm
Weight: 600 g
Max. load: 4 kg
Application: with EHD camera series

Ordering information

EHD 350 HQ / P-V1	8,5 mm (1/3") colour rugged dome camera, 12 V DC / 24 V AC
EHD WMA	Wall mount bracket
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA

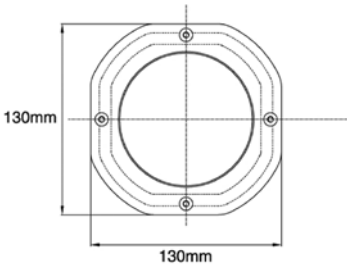
EHD 300 E - 8,5 mm (1/3") colour rugged dome camera "ECONOMY", high resolution

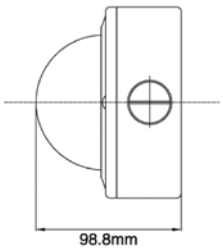
Features

- ✓ vandal-proof outdoor housing
- ✓ high resolution technology (520 TV lines)
- ✓ integrated tamper contact (micro switch)
- ✓ integrated DC varifocal lens (f=3,7 ~ 12 mm)
- ✓ 3-axis adjustment of camera module
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	1,0 lux / F = 1.2
Video output	1 Vp-p composite PAL
S/N ratio	over 48 dB
Gamma correction	0,45
Synchronisation	internal
Back light compensation	on / off
Auto white balance	yes
AGC	on / off
Electronic shutter	1:50 ~ 1:100.000
Tamper contact	micro switch
Lens	DC varifocal lens, f = 3,7~12 mm
Alignment	3-axis adjustment of camera module
Casing	aluminium, dome polycarbonate, clear
Weatherproof rating	IP 66
Power source	12 V DC +/- 10%, 24 V AC +/- 10%
Power consumption	5 W max.
Ambient temperature	-10°C ~ +50°C
Dimensions (WxHxD)	130 x 130 x 99 mm
Weight	1,0 kg





EHD WMA - wall mount bracket

Material: aluminium
Dimensions (WxHxD): 150 x 110 x 170 mm
Weight: 600 g
Max. load: 4 kg
Application: with EHD camera series

Ordering information

EHD 300 E / P	8,5 mm (1/3") colour rugged dome camera, high resolution, 12 V DC / 24 V AC
EHD WMA	Wall mount bracket
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

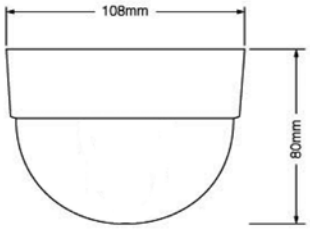
ED 300 E - 8,5 mm (1/3") colour mini dome camera, high resolution

Features

- ✓ "BG Kassen" certified
- ✓ high resolution technology (520 TV lines)
- ✓ integrated DC varifocal lens (f= 2,6 ~ 6,0 mm)
- ✓ black or white casing available
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	1,0 lux / F = 1.2
Video output	1 Vp-p composite PAL, BNC
S/N ratio	over 48 dB
Gamma correction	> 0,45
Synchronisation	internal
Back light compensation	on / off
Auto white balance	yes
AGC	on / off
Electronic shutter	1:50 ~ 1:100.000
Lens	DC varifocal lens, f = 2,6~6,0 mm, F = 1.4 ~ 1.8
Colour	black or white base
Power source	12 V DC +/- 10%, 300 mA / 24 V AC, 200 mA
Ambient temperature	0°C ~ +50°C
Dimensions (diameter x H)	108 x 80 mm
Weight	460 g



ED WMA 01 - wall mount bracket

Material: plastic
Dimensions (WxHxD): 120 x 65 x 144 mm
Weight: 100 g
Max. load: 1 kg
Application: with ED 200 / 300 camera series

Ordering information

ED 300 E / P-B	8,5 mm (1/3") colour mini dome camera, high resolution, black base, 12 V DC / 24 V AC
ED 300 E / P-W	8,5 mm (1/3") colour mini dome camera, high resolution, white base, 12 V DC / 24 V AC
ED WMA 01 B	Wall mount bracket for ED camera series, black colour
ED WMA 01 W	Wall mount bracket for ED camera series, white colour
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

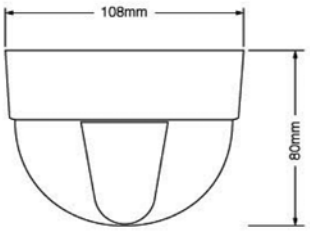
ED 200 E - 8,5 mm (1/3") colour mini dome camera, standard resolution

Features

- ✓ compact size
- ✓ discreet surveillance through covert dome
- ✓ exchangeable board lens
- ✓ black or white casing available
- ✓ optional wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	500 x 582 (PAL)
Horizontal resolution	340 TV lines
Sensitivity	0,3 lux / F = 1.2
Video output	1 Vp-p composite PAL, BNC
S/N ratio	over 48 dB
Gamma correction	> 0,45
Synchronisation	internal
Auto white balance	yes
AGC	yes
Electronic shutter	1:50 ~ 1:100.000
Lens	f = 3,6mm (further lenses see table page 35)
Lens mount	M12 x P 0,5
Colour	black or white base
Power source	12 V DC +/- 10%, 200 mA
Ambient temperature	0°C ~ +50°C
Dimensions (diameter x H)	108 x 80 mm
Weight	420 g



ED WMA 01 - wall mount bracket

Material: plastic
Dimensions (WxHxD): 120 x 65 x 144 mm
Weight: 100 g
Max. load: 1 kg
Application: with ED 200 / 300 camera series

Ordering information

ED 200 E / P-3 B	8,5 mm (1/3") colour mini dome camera, standard resolution, incl. lens f = 3,6 mm, black base, 12 V DC
ED 200 E / P-3 W	8,5 mm (1/3") colour mini dome camera, standard resolution, incl. lens f = 3,6 mm, white base, 12 V DC
ED 200 E / P-00 B	8,5 mm (1/3") colour mini dome camera, standard resolution, without lens, black base, 12 V DC
ED 200 E / P-00 W	8,5 mm (1/3") colour mini dome camera, standard resolution, without lens, white base, 12 V DC
ED WMA 01 B	Wall mount bracket for ED camera series, black colour
ED WMA 01 W	Wall mount bracket for ED camera series, white colour
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

EQ 350 HQ - 8,5 mm (1/3") digital colour camera, high resolution
EQ 250 HQ - 8,5mm (1/3") digital colour camera, standard resolution

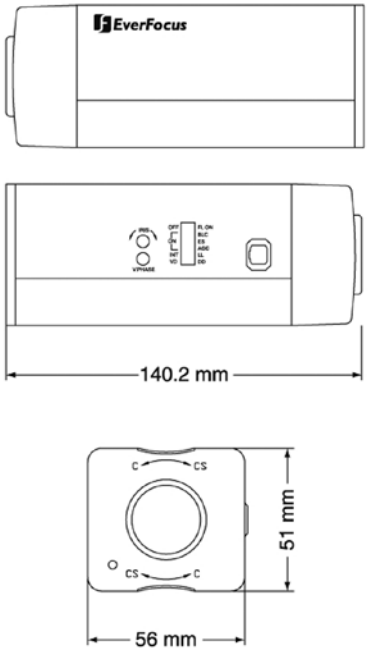
Features

- ✓ high resolution technology (EQ 350 HQ - 520 TV lines)
- ✓ flickerless function
- ✓ synchronisation with V-setup
- ✓ VD / DD switchable lens control
- ✓ support of both C-mount and CS-mount lenses
- ✓ full range backfocus mechanism

Illustration: EQ 350 HQ with lens - lens not included!

Technical data

	EQ 350 HQ	EQ 250 HQ
Sensor	8,5 mm (1/3") SONY CCD	
Picture element	752 (H) x 582 (V)	500 (H) x 582 (V)
Horizontal resolution	520 TV lines	380 TV lines
Sensitivity	0,5 lux / F = 1.2	0,3 lux / F = 1.2
S/N ratio	over 48 dB	
Gamma correction	0,45	
Video output	1 Vp-p composite PAL, BNC	
Audio	microphone output 500 mV max. / 47 kOhm, cinch	
White balance	automatic	digital auto tracing
Back light compensation	on / off	
AGC	on / off	
Synchronisation	internal or line-lock with V-setup	
Electronic shutter	on / off, 1:50 ~ 1:100.000	
Flickerless function	on / off	
Lens control	VD / DD switchable (lens not included!)	
Lens mount	C/CS mount, full range backfocus mechanism	
Power source	EQ 350 HQ A/P: 12 V DC / 24 V AC EQ 350 HQ / P: 90 ~ 260 V AC	EQ 250 HQ A/P: 12 V DC / 24 V AC EQ 250 HQ / P: 90 ~ 260 V AC
Power consumption	EQ 350 HQ A/P: 5 W max. EQ 350 HQ / P: 9 W max.	EQ 250 HQ A/P: 5 W max. EQ 250 HQ / P: 9 W max.
Ambient temperature	0°C ~ +50°C	
Dimensions (WxHXD)	57 x 51 x 140 mm	
Weight	EQ 350 HQ A/P: 500 g EQ 350 HQ / P: 600 g	EQ 250 HQ A/P: 500 g EQ 250 HQ / P: 600 g



Last chance! Phase-out item, delivery as long as stocks last!

Illustration: EQ 250 HQ with lens - lens not included!

Ordering information

EQ 350 HQ A / P	8,5 mm (1/3") digital colour camera, w/o lens, high resolution, 12 V DC / 24 V AC
EQ 350 HQ / P	8,5 mm (1/3") digital colour camera, w/o lens, high resolution, 90 ~ 260 V AC
EQ 250 HQ A / P	8,5 mm (1/3") digital colour camera, w/o lens, standard resolution, 12 V DC / 24 V AC
EQ 250 HQ / P	8,5 mm (1/3") digital colour camera, w/o lens, standard resolution, 90 ~ 260 V AC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

EQ 300 E - 8,5 mm (1/3") digital colour camera, high resolution
EQ 200 E - 8,5 mm (1/3") digital colour camera, standard resolution

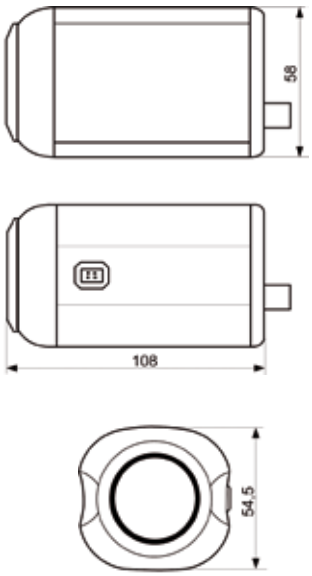
Features

- ✓ high resolution technology (520 TV lines - EQ 300 E)
- ✓ flickerless function
- ✓ on / off switch for b/w mode under low light condition
- ✓ VD / DD switchable lens control
- ✓ support of both C-mount and CS-mount lenses

Illustration: EQ 300 E with lens - lens not included!

Technical data

	EQ 300 E	EQ 200 E
Sensor	8,5 mm (1/3") SONY Super HAD CCD	
Picture element	752 (H) x 582 (V)	
Horizontal resolution	520 TV lines	380 TV lines
Sensitivity	0,4 lux / F = 1.2	0,3 lux / F = 1.2
Video output	1 Vp-p composite PAL, BNC	
Audio	microphone output 500 mV max. / 47 kOhm, cinch	
S/N ratio	48 dB	
Gamma correction	> 0,45	
White balance	automatic	
Back light compensation	on / off	
AGC	on / off	
Synchronisation	internal	
Electronic shutter	1/50 ~ 1/100.000	
Flickerless function	on / off	
B/w mode	on / off switch for b/w mode under low light condition	
Lens control	VD / DD switchable (lens not included!)	
Lens mount	C/CS mount	
Power source	EQ 300 E A/P: 12 V DC / 24 V AC EQ 300 E/P: 100 ~ 240 V AC	EQ 200 E A/P: 12 V DC / 24 V AC EQ 200 E/P: 100 ~ 240 V AC
Power consumption	EQ 300 E A/P: 2,2 W max. EQ 300 E/P: 1,6 W max.	EQ 200 E A/P: 2,2 W max. EQ 200 E/P: 1,6 W max.
Ambient temperature	0°C ~ +50°C	
Dimensions (WxHxL)	58 x 54,5 x 108 mm	
Weight	250 g	



Ordering information

EQ 300 E A / P	8,5 mm (1/3") digital colour camera, w/o lens, high resolution, 12 V DC / 24 V AC
EQ 300 E / P	8,5 mm (1/3") digital colour camera, w/o lens, high resolution, 100 ~ 240 V AC
EQ 200 E A / P	8,5 mm (1/3") digital colour camera, w/o lens, standard resolution, 12 V DC / 24 V AC
EQ 200 E / P	8,5 mm (1/3") digital colour camera, w/o lens, standard resolution, 100 ~ 240 V AC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

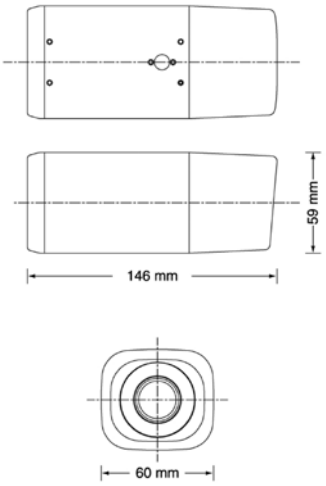
EI 300 E - 8,5 mm (1/3") lens integrated colour camera, high resolution

Features

- ✓ high resolution technology (520 TV lines)
- ✓ integrated DC varifocal lens f = 3,7 ~ 12 mm
- ✓ integrated wall bracket

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 x 582 (PAL)
Horizontal resolution	520 TV lines
Sensitivity	1,0 lux / F = 1.2
Video output	1 Vp-p composite PAL
S/N ratio	over 48 dB
Gamma correction	0,45
Synchronisation	internal
Back light compensation	on / off
Auto white balance	yes
AGC	on / off
Electronic shutter	1:50 ~ 1:100.000
Lens	DC varifocal lens, f = 3,7 ~ 12 mm, F = 1.4 ~ 1.8
Power source	12 V DC +/- 10%, 300 mA
Ambient temperature	0°C ~ +50°C
Dimensions (WxHxL)	66 x 59 x 146 mm
Weight	650 g
Bracket	zink, 155 (H) x 45 (D) mm, included



Ordering information

EI 300 E / P	8,5 mm (1/3") lens-integrated colour camera, incl. DC varifocal lens 3, 7 ~12 mm, high resolution, 12 V DC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

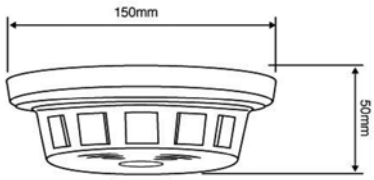
ESD 200 E - 8,5 mm (1/3") colour smoke detector camera

Features

✓ compact size
✓ discreet surveillance through covert smoke detector casing

Technical data

Sensor	8,5 mm (1/3") SONY CCD
Picture element	500 x 582 (PAL)
Horizontal resolution	340 TV lines
Sensitivity	0,3 lux / F = 1.2
Video output	1 Vp-p composite PAL, BNC
S/N ratio	over 48 dB
Gamma correction	> 0,45
Synchronisation	internal
Back light compensation	yes
Auto white balance	yes
AGC	yes
Electronic shutter	1:50 ~ 1:100.000
Number of cameras	1
Lens	f = 4,3mm (further lenses see table page 35)
Lens mount	M12 x P 0,5
Power source	12 V DC +/- 10%, 200 mA
Ambient temperature	0°C ~ +50°C
Dimensions (diameter x H)	150 x 50 mm
Weight	135 g



Ordering information

ESD 200 E / P-4	8,5 mm (1/3") colour smoke detector camera, incl. lens f = 4,3mm, 12 V DC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

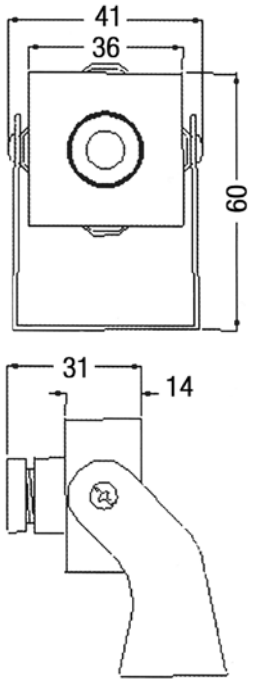
EM 200 E - 8,5 mm (1/3") colour metal case camera
EB 200 E - 8,5 mm (1/3") colour PCB camera

Features

✓ compact size for discreet surveillance
✓ exchangeable board lens included (EM 200 E also 3,7mm pinhole lens)

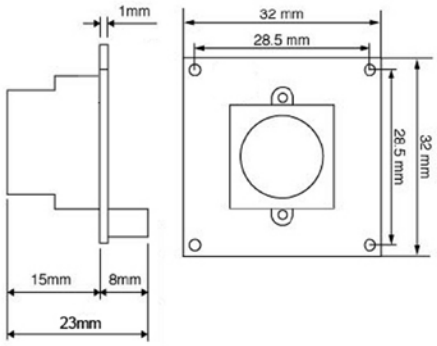
Technical data

	EM 200 E	EB 200 E
Sensor	8,5 mm (1/3") SONY CCD	
Picture element	500 x 582 (PAL)	
Horizontal resolution	340 TV lines	
Sensitivity	0,3 lux / F = 1.2	
S/N ratio	over 48 dB	
Gamma correction	> 0,45	
Video output	1 Vp-p composite PAL, BNC	
Synchronisation	internal	
Back light compensation	yes	
Auto white balance	yes	
AGC	yes	
Electronic shutter	1:50 ~ 1:100.000	
Lens	f = 3,6mm Pinhole lens f = 3,7mm (further lenses see table page 35)	f = 3,6mm (further lenses see table page 35)
Lens mount	M12 x P 0,5	
Power source	12 V DC +/- 10%, 200 mA	
Ambient temperature	0°C ~ +50°C	
Dimensions (WxHxD)	41 x 60 x 31 mm	32 x 32 x 23 mm
Weight	180 g	30 g



Drawing: EM 200 E with 3,6mm lens

Image: EB 200 E with 3,6mm lens



Drawing: EB 200 E w/o lens

Ordering information

EM 200 E / P-3	8,5 mm (1/3") colour metal case camera, incl. lens f = 3,6 mm, 12 V DC
EM 200 E / P-3P	8,5 mm (1/3") colour metal case camera, incl. pinhole lens f = 3,7 mm, 12 V DC
EM 200 E / P-00	8,5 mm (1/3") colour metal case camera, without lens, 12 V DC
EB 200 E / P-3	8,5 mm (1/3") colour PCB camera, incl. lens f = 3,6 mm, 12 V DC
EB 200 E / P-00	8,5 mm (1/3") colour PCB camera, without lens, 12 V DC
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA

EQ 150 - 8,5 mm (1/3") b/w DSP camera, high resolution

EZ 180 - 8,5 mm (1/3") b/w weatherproof DSP camera, high resolution

Technical data EQ 150

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 (H) x 582 (V)
Horizontal resolution	560 TV lines
Sensitivity	0,04 lux / F = 1.2
Video output	1 Vp-p CCIR, BNC
Audio	microphone output 500 mV / 47 kOhm, cinch
S/N ratio	over 48 dB
Gamma correction	> 0,45
Back light compensation	on / off switch
AGC	on / off switch
Synchronisation	line-locked with LL on, internal with LL off
Electronic shutter	1:50 ~ 1:100.000
Lens control	VD / DD switchable (lens not included!)
Lens mount	C/CS mount, full range backfocus mechanism
Power source	EQ 150 A / C: 12 V DC / 24 V AC EQ 150 / C: 90 ~ 260 V AC
Power consumption	EQ 150 A / C: 5 W max. EQ 150 / C: 9 W max.
Ambient temperature	0°C ~ +50°C
Dimensions (WxHxL)	51 x 57 x 140 mm
Weight	600 g (EQ 150 / C), 500 g (EQ 150 A / C)

Last chance! Phase-out item, delivery as long as stocks last!

Illustration: EQ 150 with lens - lens not included!

Technical data EZ 180

Sensor	8,5 mm (1/3") SONY CCD
Picture element	752 (H) x 582 (V)
Horizontal resolution	560 TV lines
Sensitivity	0,1 lux / F = 1.2
Video output	1 Vp-p CCIR, BNC
S/N ratio	over 48 dB
Gamma correction	> 0,45
Back light compensation	on / off
AGC	on / off
Synchronisation	internal or line-lock with V-setup (24 V AC)
Electronic shutter	on / off, 1:50 ~ 1:100.000
Flickerless function	on / off
Lens	DC varifocal lens 3,5 ~ 8mm
Heater	thermostat controlled
Heater activating temperature	+10°C
Weatherproof rating	IP 66
Power source	12 V DC / 24 V AC
Power consumption	3 W max., 12 W with activated heater
Ambient temperature	-35° ~ +50°C (at 12 V DC) / -45°C ~ +50°C (at 24 V AC)
Dimensions with sunshield (WxHxD)	83 x 70 x 172 mm
Dimensions w/o sunshield (WxHxD)	57 x 57 x 132 mm
Bracket	zink diecasted, silver colour, included
Weight	1,1 kg

Last chance! Phase-out item, delivery as long as stocks last!

Illustration: EZ 180 / C-V1

Ordering information

EQ 150 A / C	8,5 mm (1/3") b/w DSP camera, w/o lens, high resolution, 12 V DC / 24 V AC
EQ 150 / C	8,5 mm (1/3") b/w DSP camera, w/o lens, high resolution, 90 ~ 260 V AC
EZ 180 / C-V1	8,5 mm (1/3") b/w weatherproof DSP camera incl. DC varifocal lens 3,5 ~ 8 mm, high resolution, 12 V DC / 24 V AC
AP12D152E1	Power supply, 230 V AC / 12 V DC, 1.500 mA, for EZ 180 / C-V1
AP12A122E0	Power supply, 230 V AC / 12 V DC, 600 mA, for EQ 150 A / C and EQ 150 / C

EPTZ 3650 - 6,35 mm (1/4") 36x D/N outdoor speed dome camera with auto tracking function

EPTZ 3650 I - 6,35 mm (1/4") 36x D/N indoor speed dome camera with auto tracking function

Features

- ✓ 36x optical zoom (+12x digital zoom)
- ✓ high resolution technology (up to 570 TV lines - b/w mode)
- ✓ smart auto tracking functions
- ✓ automatic exposure control
- ✓ integrated DSS digital slow shutter
- ✓ integrated Wide Dynamic Range
- ✓ flickerless function
- ✓ IP66 outdoor model and indoor model available
- ✓ several built-in protocols
- ✓ 192 programmable preset positions
- ✓ 4 programmable patterns
- ✓ 8 freely adjustable privacy zones
- ✓ 4 alarm inputs, 2 alarm outputs with tour/position auto triggering

Technical data

	EPTZ 3650	EPTZ 3650 I
Sensor	6,35 mm (1/4") CCD SONY Exview HAD	
Effective pixels	440.000	
Horizontal resolution	530 TV lines (colour) / 570 TV lines (b/w)	
Sensitivity	1,4 lux (F 1.6, 50 IRE - colour) / 0,1 lux (F 1.6, 50 IRE - b/w)	
Video output	1 Vp-p (sync. negative), BNC	
S/N ratio	over 50 dB	
Sync. system	internal	
Electronic shutter	1/50 ~ 1:10.000 sec., 7 steps	
DSS digital slow shutter	on / off, 50x max.	
White balance	auto / indoor / outdoor / one-push / manual	
Back light compensation	on / off	
Gain	auto	
Exposure control	automatic	
Flicker cancel	on / off	
WDR Wide Dynamic Range	on / off	
Zoom ratio	36x optical zoom (+12x digital zoom, max. 432x)	
Focus length	f = 3,4 (wide) ~ 122,4 (tele) mm	
Aperture	F 1.6 (wide) ~ F 4.5 (tele)	
Viewing angle	57,8° (wide end) to 1,7° (tele end)	
Minimum object distance	320 mm (wide end) to 1500 mm (tele end)	
Focusing method	auto, one-push AF, manual	
Weatherproof rating	IP 66	IP 30
Power source	24 V AC	
Power consumption	14 W max.	
Fan	thermostat controlled	
Ambient temperature	-40°C ~ +40°C	0°C ~ +40°C
Humidity	~ 90%	
Dimensions (diameter x H)	210 x 250 mm (incl. sunshield)	160 x 220 mm
Weight	5,2 kg (incl. sunshield)	3,0 kg

Functions

Communication	RS-485
Built-in protocols	Pelco-P / Pelco-D / EverFocus / Samsung (El.) / Panasonic
Communication speed	1200 / 2400 / 4800 / 9600 bps
Address editable through DIP switch	yes
Speed dome address range	1 ~ 255
Auto tracking	tracking mask, pan/tilt limits, manual tracking
Horizontal rotation speed	0,1° / sec. ~ 360° / sec.
Horizontal rotation range	360° unlimited rotation
Tilt rotation range	180° tilt motion with electronic auto flip
Day / night switching	manual / automatic / by external contact (via alarm in)
Auto zoom speed control	auto-adjustment of PT control speed acc. to zoom position
Autopan, 2 points scanning	adjustable speeds, adjustable end stops
Autopan speed	1 ~ 255 steps
Dwell time (2 points)	1 ~ 99 sec.
Preset positions	192
Running to position speed	up to 360° / sec.
Pattern	4x, 1 minute max. each
Auto resume	after inactivity 0,5 ~ 60 min. or after power-up
Auto resume actions	home position, tour 1, pattern 1, auto-pan, previous mode
Manual pan speed	0,1° ~ 120° / sec.
Manual tilt speed	0,1° ~ 60° / sec.
Dwell time at preset position	1 ~ 60 sec.
Tours	16
Presets per tour	16 preset positions
Position accuracy	+/- 0,1°
Alarm	4 inputs, 2 outputs, with tour/position auto triggering
Proportional pan speed	yes
Privacy zones	8, freely adjustable, 10 colours / mosaic
Built-in menu for functions	yes, multiline OSD

Ordering information

EPTZ 3650 / P	6,35 mm (1/4") 36x day / night outdoor speed dome camera with auto tracking, 24 V AC (incl. sunshield, w/o bracket, w/o power supply)
EPTZ 3650 I / P	6,35 mm (1/4") 36x day / night indoor speed dome camera with auto tracking, 24 V AC (w/o bracket, w/o power supply)
Accessories	please refer to pages 34 - 36

With the intelligent auto tracking function, EPTZ 3650, EPTZ 3650 I, EPN 3600 and EPN 3600 I will detect any progressively moving object and follow it within the camera's area of coverage. Auto tracking also features exclusive masking, pan/tilt limits and flexible resume functions.

EPTZ 2700 - 6,35 mm (1/4") 27x day / night outdoor speed dome camera
EPTZ 2700 I - 6,35 mm (1/4") 27x day / night indoor speed dome camera

Features

- ✓ 27x optical zoom (+10x digital zoom)
- ✓ high resolution technology (480 TV lines)
- ✓ integrated DSS digital slow shutter
- ✓ flickerless function
- ✓ IP66 outdoor model and indoor model available
- ✓ several built-in protocols
- ✓ 192 programmable preset positions
- ✓ 4 programmable patterns
- ✓ 4 alarm inputs, 2 alarm outputs with tour/position auto triggering

Technical data

	EPTZ 2700	EPTZ 2700 I
Sensor	6,35 mm (1/4") CCD SONY Exview HAD	
Effective pixels	440.000	
Horizontal resolution	480 TV lines	
Sensitivity	1lux (F 1.6, 50 IRE - colour) / 0,1 lux (F 1.6, 50 IRE - b/w)	
Video output	1 Vp-p (sync. negative), BNC	
S/N ratio	over 50 dB	
Sync. system	internal	
Electronic shutter	1/50 ~ 1:10.000 sec., 7 steps	
DSS digital slow shutter	on / off, 32x max.	
White balance	auto / indoor / outdoor	
Back light compensation	on / off	
Gain	auto	
Flicker cancel	on / off	
Zoom ratio	27x optical zoom (+10x digital zoom, max. 270x)	
Focus length	f = 3,25 (wide) ~ 88 (tele) mm	
Aperture	F 1.5 (wide) ~ 3.6 (tele) mm	
Viewing angle	58° (wide end) to 2,3° (tele end)	
Minimum object distance	100 mm (wide end) to 1000 mm (tele end)	
Focusing method	auto, one-push AF, manual	
Weatherproof rating	IP 66	IP 30
Power source	24 V AC	
Power consumption	14 W max.	
Fan	thermostat controlled	
Ambient temperature	-40°C ~ +40°C	0°C ~ +40°C
Humidity	~ 90%	
Dimensions (diameter x H)	210 x 250 mm (incl. sunshield)	160 x 220 mm
Weight	5,2 kg (incl. sunshield)	3,0 kg

Functions

Communication	RS-485
Built-in protocols	Pelco-P / Pelco-D / EverFocus / Samsung (El.) / Panasonic
Communication speed	1200 / 2400 / 4800 / 9600 bps
Address editable through DIP switch	yes
Speed dome address range	1 ~ 255
Horizontal rotation speed	0,1° / sec. ~ 360° / sec.
Horizontal rotation range	360° unlimited rotation
Tilt rotation range	180° tilt motion with electronic auto flip
Day / night switching	manual / automatic / by external contact (via alarm in)
Auto zoom speed control	auto-adjustment of PT control speed acc. to zoom position
Autopan, 2 points scanning	adjustable speeds, adjustable end stops
Autopan speed	1 ~ 255 steps
Dwell time (2 points)	1 ~ 99 sec.
Preset positions	192
Running to position speed	up to 360° / sec.
Pattern	4x, 1 minute max. each
Auto resume	after inactivity 0,5 ~ 60 min. or after power-up
Auto resume actions	home position, tour 1, pattern 1, auto-pan, previous mode
Manual pan speed	0,1° ~ 120° / sec.
Manual tilt speed	0,1° ~ 60° / sec.
Dwell time at preset position	1 ~ 60 sec.
Tours	16
Presets per tour	16 preset positions
Position accuracy	+/- 0,1°
Alarm	4 inputs, 2 outputs, with tour/position auto triggering
Proportional pan speed	yes
Built-in menu for functions	yes, multiline OSD

Ordering information

EPTZ 2700 / P	6,35 mm (1/4") 27x day / night outdoor speed dome camera, 24 V AC (incl. sunshield, w/o bracket, w/o power supply)
EPTZ 2700 I / P	6,35 mm (1/4") 27x day / night indoor speed dome camera, 24 V AC (w/o bracket, w/o power supply)
Accessories	please refer to pages 34 - 36

EPTZ 100 - 6,35 mm (1/4") 10x day / night indoor speed dome camera

Features

- ✓ 10x optical zoom (+10x digital zoom)
- ✓ high resolution technology (up to 570 TV lines - b/w mode)
- ✓ manual or automatic day / night switching with IR cut filter
- ✓ dynamic noise reduction
- ✓ flickerless function
- ✓ several built-in protocols
- ✓ 64 programmable preset positions
- ✓ 4 privacy zones

Technical data

Sensor	6,35 mm (1/4") CCD SONY Exview HAD
Effective pixels	440.000
Horizontal resolution	520 TV lines (colour) / 570 TV lines (b/w)
Sensitivity	0,7 lux (F 1.8, 50 IRE - colour mode) 0,02 lux (F 1.8, 50 IRE - b/w mode) 0,005 lux (DSS x 128)
Video output	1 Vp-p (sync. negative)
S/N ratio	over 50 dB
Sync. system	internal
Electronic shutter	1/50 ~ 1/120.000, automatic (ESC) or manual
DSS digital slow shutter	up to 128 x
White balance	auto AWC / ATW mode / manual
Back light compensation	adjustable 3 steps / off
Gain	adjustable 3 steps / off
Flicker cancel	on / off
DNR dynamic noise reduction	adjustable 3 steps / off
Day/night switching	IRC + b/w switching manual / automatic
Zoom ratio	10x optical zoom (+10x digital zoom, max. 100x)
Focus length	f = 3,8 (wide) ~ 38 (tele) mm
Aperture	F 1.6 (wide) ~ 2.8 (tele)
Viewing angle	51,2° (wide end) to 5,58° (tele end)
Minimum object distance	1,5 m
Focusing method	auto, one-push AF, manual
Alarm input	3 x N.O. contact with preset position triggering
Alarm output	1 x relay out N.O. / N.C.
Power source	24 V AC
Power consumption	19 W max. (with PTZ motors) / 12 W max. (w/o PTZ motors)
Ambient temperature	0°C ~ +40°C
Humidity	85% max.
Dimensions (diameter x H)	114 x 200 mm (incl. ceiling mount adaptor)
Weight	1,5 kg

Functions

Communication	RS-485 simplex (2 wire)
Telemetry protocols	EverFocus, Pelco-P, Pelco-D (DIP switch)
Communication speed	2400 / 4800 / 9600 bps (DIP switch)
Speed dome address range	1 ~ 255 (DIP switch)
Horizontal rotation range	360° unlimited rotation
Tilt rotation range	90° with auto flip
Pan / tilt speed	0,5° ~ 240° / sec.
Position accuracy	0,225°
Preset positions	64
Preset tours	7
Pattern	4 x pattern with up to 800 movements / 600 s PTZ recording each
Autopan	2-point mode or endless
Privacy zones	4
Setup	multiline OSD setup; protocol baud rate, RS-485 ID by DIP switch
Auto resume	after inactivity 1~10 min., after power-up

EPTZ 100 WLM - wall mount bracket

Material: steel / aluminium
Dimensions (WxHxD): 80 x 169,5 x 240 mm
Height mounting plate: 140 mm
Weight: 750 g
Max. load: 10 kg
Application: with EPTZ 100

EPTZ 100 CPM - pendant ceiling mount bracket

Material: aluminium
Length: 300 mm (incl. ceiling & dome adaptor)
Diameter ceiling adaptor: 72 mm
Diameter dome adaptor: 100 mm
Weight: 950 g
Max. load: 10 kg
Application: with EPTZ 100

Ordering information

EPTZ 100 / P	6,35 mm (1/4") 10x day / night indoor speed dome camera, 24 V AC (w/o bracket, w/o power supply)
EPTZ 100 WLM	Wall mount bracket for EPTZ 100
EPTZ 100 CPM	Pendant ceiling mount adaptor for EPTZ 100
AP24A302E1	Power supply, 230 V AC / 24 V AC, 3.000 mA

EKB 500 - multi-function keyboard

Features

- ✓ use of EEPbus for simultaneous control of DVRs and speed domes on one single RS-485 bus
- ✓ capable of controlling speed dome cameras and DVRs
- ✓ 3D joystick control of PTZ function
- ✓ jog/shuttle DVR control
- ✓ matrix control (EverFocus DVR series' products)
- ✓ LCD display (20 x 2 lines), illuminated
- ✓ multi-protocol support (EverFocus, Pelco-P/D, Samsung (El.), EQ 2700 S, Panasonic)
- ✓ password protection
- ✓ ergonomic buttons placement with sound indication for easy usage
- ✓ OSD access to connected devices
- ✓ two independent RS-485 communication ports with selectable baud rate
- ✓ camera / monitor mapping for easy reorganization
- ✓ housing allows countersunk installation

Technical data

Keys	48
Joystick	3D PTZ function control
Jog/shuttle	DVR control
Display	LCD 2 lines with 20 characters each
Baud rate	1.200 ~ 38.400
Serial interfaces	RS-232 (service) / 2 x RS-485
Protocols	Pelco-P / Pelco-D / EverFocus / Samsung (El.) / EQ 2700 S / Panasonic
Devices	control of speed dome and DVR
Cascading	up to 8 keyboards addressable
Wiring box	yes
Supported DVR models	Paragon 16 / Paragon 264x4 ECOR 8 / 4 / ECOR 264x1-16/-9/-4 EDR 1640 / 1610 / 920 / 910 EDR 810 H / 810 M / 410 H / 410 M EDSR 1600 / 900 / 600 / 400 H / 400 M / 100 H / 100 M
Power source	12 V DC, via included power supply 230 V AC
Power consumption	10 W max.
Ambient temperature	0°C ~ +40°C
Dimensions (WxHxD)	360 x 110 x 200 mm
Weight	1,5 kg

Also available for speed dome control:

ECS 7710 C / ECS 7710 T - 26 cm (10,4") TFT touchscreen control panel with DVR / PTZ control

For specifications, please refer to page 55

Ordering information

EKB 500	Multi-function keyboard, 12 V DC

EPTZ PBOX - connector box with power supply for speed dome

Features

- ✓ vandal-proof metal housing
- ✓ dual power input 100~120 V AC / 220~240 V AC
- ✓ designed for direct speed dome mount (EPTZ series with wall mount bracket)
- ✓ separate installation possible (blind cover for cable hole in package)
- ✓ universal mounting adaptor for additional equipment (video server, twisted pair transmitter, fiber optic transmitter)
- ✓ optional 110/230 V AC to 12 V DC converter for additional equipment
- ✓ mounting option (optional adaptor) to pole mount and corner mount adaptor

Technical data

Power source	100 ~ 120 V AC, 60 Hz or 220 ~ 240 V AC, 50 Hz (set by internal switch), 120 VA max.
Power output	24 V AC, 3,5 A max.
Connectors	Power in: 3x screwless terminal Power out: 5,5mm power plug Molex connector for 12 V DC converter RS-485 / alarm: 2x 10-pin screwless terminal, looped
Ambient temperature	-20°C ~ +40°C
Dimensions (WxHxD)	216,2 x 216,2 x 80,5mm (w/o cable gland / hinge / flanges) 270 x 245 x 80,5 mm (with cable gland / hinge / flanges)
Dimensions universal mounting plate	120 x 77 mm
Weight	4,1 kg

Image: EPTZ PBOX with speed dome EPTZ 3650

Accessories

EPTZ PB-A - mounting adaptor for EPTZ PLM or EPTZ CNM

EPTZ PB-P12 - converter 110/230 V AC to 12 V DC / 500 mA

Image: EPTZ PBOX inside view

Ordering information

EPTZ PBOX	Connector box with power supply for speed dome, 100 ~120 V AC / 220 ~ 240 V AC
EPTZ PB-A	Mounting adaptor for EPTZ PLM or EPTZ CNM
EPTZ PB-P12	Converter 110 / 230 V AC to 12 V DC / 500 mA

- **EPTZ CNM - corner mount adaptor**
- **EPTZ PLM - pole mount adaptor**
- **EPTM CLM - ceiling pendent mount adaptor**
- **EPTZ WMB - wall mount bracket**
- **EPTZ ICMB - embedded ceiling mount adaptor kit**
- **AP24A302E1 - indoor power supply**

Technical data EPTZ CNM

Material	stainless steel
Height	170 mm
Width mounting plate	115 mm
Width side plate	80 mm
Weight	1,4 kg
Application	with EPTZ 3650 / EPTZ 2700, EPTZ 3000 / EPTZ 1000 EZ 650 / EZN 850

Technical data EPTZ PLM

Material	stainless steel
Diameter pole	90mm min. / 155mm max.
Dimensions (WxHxD)	166 x 205 x 47 mm
Weight	1,4 kg
Application	with EPTZ 3650 / EPTZ 2700, EPTZ 3000 / EPTZ 1000 EZ 650 / EZN 850

Technical data EPTZ CLM

Material	steel, powder-coated
Length tube	340 mm
Diameter ceiling adaptor	108 mm
Diameter tube	32 mm
Weight	1,5 kg (incl. tube)
Application	with EPTZ 3650 / EPTZ 2700, EPTZ 3000 / EPTZ 1000

Technical data AP24A302E1

Input voltage	230 V AC
Output voltage	24 V AC
Max. output current	3 A
Power consumption	100 VA max.
Dimensions (WxHxD)	79 x 68 x 101 mm
Weight	1,2 kg

Technical data EPTZ WMB

Material	diecast aluminium, powder-coated
Length	270 mm
Max. loads	15 kg
Application	with EPTZ 3650 / EPTZ 2700

Technical data EPTZ ICMB

Material	steel
Cutout diameter	200 mm
Dimensions (HxD)	130 x 220 mm
Weight	1,1 kg
Application	with EPTZ 3650 / EPTZ 2700

Varifocal lenses

EFV 550 / EFV 550 DC

EFV 416 / EFV 416 DC

EFV 358 / EFV 358 DC

EFV 3010 DC

EFV 2810 / EFV 2810 DC

Technical data

	Sensor format	Focal length (f)	Aperture (F)	Mount	Horizontal viewing angle at 8,5 mm (1/3")	Operation		Weight (g)
						Iris	Focus	
EFV 550	8,5 mm (1/3")	5 ~ 50	1,7 ~ C	CS	51° ~ 5,5°	manual	manual	130,0
EFV 550 DC	8,5 mm (1/3")	5 ~ 50	1,7 ~ 360	CS	51° ~ 5,5°	DC	manual	140,0
EFV 416	8,5 mm (1/3")	4 ~ 16	1,4 ~ C	CS	65,4° ~ 17,8°	manual	manual	67,0
EFV 416 DC	8,5 mm (1/3")	4 ~ 16	1,4 ~ 360	CS	65,4° ~ 17,8°	DC	manual	67,0
EFV 358	8,5 mm (1/3")	3,5 ~ 8	1,4 ~ C	CS	69° ~ 33°	manual	manual	44,0
EFV 358 DC	8,5 mm (1/3")	3,5 ~ 8	1,4 ~ 360	CS	69° ~ 33°	DC	manual	57,0
EFV 3010 DC	8,5 mm (1/3")	3 ~ 8	1,0 ~ 360	CS	91° ~ 67°	DC	manual	47,0
EFV 2810	8,5 mm (1/3")	2,8 ~ 10	1,4 ~ C	CS	81° ~ 27°	manual	manual	51,0
EFV 2810 DC	8,5 mm (1/3")	2,8 ~ 10	1,4 ~ 360	CS	81° ~ 27°	DC	manual	61,0

Board lenses for camera series EB / EM / ED

EFL 3620

EFL 4320

EFL 6020

EFL 8020

Technical data

	Sensor format	Focal length (f)	Aperture (F)	Mount	Horizontal viewing angle at 8,5 mm (1/3")	Operation		Weight (g)
						Iris	Focus	
EFL 3620	8,5 mm (1/3")	3,6	2,0	-	67°	fix	manual	5,5
EFL 4320	8,5 mm (1/3")	4,3	2,0	-	58°	fix	manual	6,0
EFL 6020	8,5 mm (1/3")	6,0	2,0	-	43°	fix	manual	5,0
EFL 8020	8,5 mm (1/3")	8,0	2,0	-	33°	fix	manual	6,0

For Megapixel camera lenses, please refer to page 9 of the NeVio IP catalogue part!

- **FH 7153 H** - **outdoor housing HOV with sunshield and heater, side opening**
- **FH 7154 H** - **outdoor housing HEM with sunshield and heater**
- **FH 7156 H/B** - **outdoor housing HEB with sunshield, heater and cable channel**
- **FH 7155 H** - **outdoor housing HOT with heater, side opening**

FH 7153 H

FH 7154 H

FH 7156 H/B

FH 7155 H

Technical data

	FH 7153 H	FH 7154 H	FH 7156 H/B	FH 7155 H
Outer dimensions (WxHxL)	163 x 115 x 412 mm	105 x 95 x 355 mm	138 x 128 x 410 mm	146 x 101 x 391 mm
Inner dimensions (WxHxL)	100 x 70 x 250 mm	70 x 65 x 300 mm	90 x 85 x 320 mm	70 x 70 x 250 mm
Dimensions sunshield (WxHxL)	176 x 98 x 514 mm	113 x 71 x 410 mm	144 x 90 x 470 mm	.
Material	extruded and die-cast aluminium			technopolymer
Colour	powder-coated RAL 9002			
Weatherproof rating	IP 66			
Ambient temperature	-20°C ~ +50°C			
Heater	thermostat controlled, 115 ~ 240 V AC, 40 W			230 V AC, 0,25 A max.
Weight	3,0 kg	1,9 kg	2,2 kg	600 g

FH 7164 - sunshield HOT

Dimensions (WxHxD)	139 x 77 x 424 mm
Weight	0,3 kg
Material	technopolymer
Colour	RAL 9002

FH 7167 - power supply HEM

Power supply input	230 V AC
Power supply output	12 V DC / 400 mA, stabilized

FH 7101 H - thermostat heater HEM/HEB

Power supply input	12 V DC / 24 V AC
Power consumption	20 W

FH 7168 / B - power supply HEB / HOV

Power supply input	230 V AC
Power supply output	12 V DC / 1,25 A, stabilized, switched

- **BA 17 - bracket**
- **BA 14 - bracket**
- **BA 11 - bracket**
- **BA 01 - bracket**
- **BA 01 L - bracket**

BA 17

BA 14

BA 11

BA 01

BA 01 L

Technical data

	BA 17	BA 14	BA 11	BA 01	BA 01 L
Material	steel / aluminium	zink diecasted		zink diecasted, mounting plate plastic	
Colour	grey metallic	silver		powder-coated beige	
Length	150 mm	165 mm	95 mm	95 mm	150 mm
Max. load	3 kg	3 kg	3 kg	3 kg	3 kg

BA 15 - pole mount adaptor WSFP

Pole diameter	65 ~ 110 mm
Material	cast aluminium, stainless steel
Application	with BA 09, BA 12, BA PTAC

BA 09 - bracket WBM

Material	aluminium, RAL 9002
Length	226 mm
Max. load	25 kg
Application	with FH 7154 H, FH 7156 H/B, FH 7160 and FH 7161 / B

BA 12 - bracket WBOV

Material	aluminium, RAL 9002
Length	226 mm
Max. load	25 kg
Application	with FH 7153 H, FH 7156 H/B and FH 7161 / B

- **EL TTM 102 - active mini video twisted pair transmitter**
- **EL TT 102 - active video twisted pair transmitter**
- **EL TT 103 - passive video twisted pair transmitter**
- **EL TR 102 - active video twisted pair receiver**
- **EL TRR 102 - active video twisted pair receiver, rack mount card version**
- **EL TR Rack2 - 482 mm (19") rack for twisted pair video receiver EL TRR 102**

EL TTM 102

EL TT 102

EL TT 103

Technical data EL TTM 102 / EL TT 102 / EL TT 103

	EL TTM 102	EL TT 102	EL TT 103
Video input	1 Vp-p, FBAS, 75 Ohm BNC plug	1 Vp-p, FBAS ,75 Ohm termination	1 Vp-p, FBAS, 75 Ohm termination, BNC
Twisted pair output	2 x 2 Vp-p max. at 120 Ohm		
Bandwidth	30 Hz ~ 5 MHz (-0,5 dB)	30 Hz ~ 5 MHz (-0,5 dB)	40 Hz ~ 5 MHz (-1 dB)
Surge / overvoltage protection	Class 4 15/8 KV Class 3 3015-6, ESD 8/25 µs: 25 A	-	-
Max. recommended cable length	1500 m with active receiver	1200 m with active receiver	200 m with active receiver
Power source	9 ~ 20 V DC, 20 mA max.	12 V DC, 40 mA max., with included power supply 230 V AC	-
Ambient temperature	-10°C ~ +60°C	0°C ~ +40°C	0°C ~ +50°C
Dimensions	17,5 x 44 mm (diameter x depth)	42 x 46 x 73 mm (WxHxD)	15 x 19 x 60 mm (WxHxL)
Weight	25 g	65 g	60 g

EL TR 102

EL TRR 102

EL TR Rack2

Technical data EL TR 102 / EL TRR 102

	EL TR 102	EL TRR 102
Twisted pair video input	0,12 ~ 2 Vp-p	
Video output	1 Vp-p max. FBAS at 75 Ohm termination	
Input impedance	45 ~ 75 Ohm	
Bandwidth	50 Hz ~ 5 MHz (3 dB)	50 Hz ~ 5 MHz (-3 dB)
Disturbance reduction	> 70 dB, 50 Hz	
Signal-noise ratio	-50 dB at +40 dB (gain adjustment) -47 dB at +60 dB (gain adjustment)	
Gain adjustment	+6 dB ~ +60 dB at 5 MHz	
Power source	12 V DC, 150 mA max., with included power supply 230 V AC	12 V DC, max. 150 mA
Ambient temperature	0°C ~ +40°C	
Dimensions (WxHxD)	138 x 28 x 86 mm	138 x 28 x 139 mm
Weight	125 g	125 g

Technical data EL TR Rack 2

Receiver card slots	15, with 15 metal slot covers for unused slots
Material	steel, black
Power supply	230 V AC, 80 VA max. internal: 15 x 12 V DC, 150 mA max.
Ambient temperature	0°C ~ +50°C
Dimensions (WxHxD)	482 x 133 x 205 mm, 19" 3U
Weight	6,5 kg

EP TD 108 - video signal distributor 1 x 8
EP TD 408 A - video signal distributor 4 x 8
EP TD 816 A - video signal distributor 8 x 16
EP TD 816 PRO - programmable video signal distributor 8 x 16

EP TD 108 | EP TD 408 A | EP TD 816 A | EP TD 816 PRO

Technical data video signal distributors

	EP TD 108	EP TD 408 A	EP TD 816	EP TD 816 PRO
Video input	1 x 0,8 ~ 1,2 Vp-p Composite, BNC, 75 Ohm terminated	4 x 0,8 ~ 1,2 Vp-p Composite, BNC, 75 Ohm terminated	8 x 0,8 ~ 1,2 Vp-p Composite, BNC, 75 Ohm terminated	8 x 0,8 ~ 1,2 Vp-p Composite, BNC, 75 Ohm terminated
Video output	8 x 1 Vp-p Composite to 75 Ohm, BNC	8 x 1 Vp-p Composite to 75 Ohm, adjustable, BNC	16 x 1 Vp-p Composite to 75 Ohm, adjustable, BNC	16 x 1 Vp-p Composite to 75 Ohm, BNC, 1 output with programmable sequence
Distribution	1 in : 8 out	4 x 1 in : 2 out	8 x 1 in : 2 out	free input/output assignment
Video bandwidth	10 Hz ~ 10 MHz			
Display	-	-	-	2 x 7 segment LED displays
Setup	-	-	-	4 front keys with lock function
Power source	12 V DC, 500 mA max.			
Ambient temperature	0°C ~ +50°C			
Dimensions (WxHxD)	150 x 44 x 133 mm	150 x 44 x 133 mm	482 x 44 x 170 mm, 19" 1U	482 x 44 x 170 mm, 19" 1U
Weight	750 g	750 g	2,6 kg	2,6 kg

EP 4CQ - 4-channel colour quad processor

Technical data EP 4CQ

Video format	PAL
Video input	4 inputs, 1 Vp-p, 75 Ohm 1 VCR input, 1 Vp-p, 75 Ohm
Video output	2 video outputs, 1 Vp-p at 75 Ohm
Title	6-character title generator for each cameras
Timer	built-in real time clock
Alarm input	4 alarm inputs
Alarm output	1 x NO/NC relay output
Power source	12 V DC / 24 V AC, 230 V AC via included power supply
Power consumption	max. 17 W
Ambient temperature	0°C ~ +50°C
Dimensions (WxHxD)	239 x 55 x 166 mm
Weight	2,4 kg

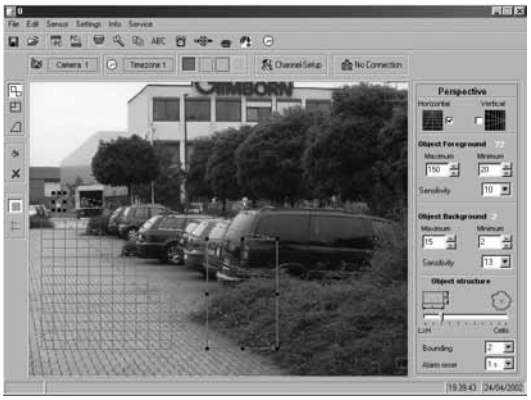
EP DMD 4 - digital 4-channel indoor / outdoor video sensor

Features

- ✓ PC setup via network with live video, saving of parameters, parameter up- / download, password protection
- ✓ integration of several sensors in network
- ✓ 4 sensor areas per camera with each up to 6480 fields
- ✓ tracking detection of up to 16 objects per channel
- ✓ max. 8 scans / second of all sensor fields
- ✓ automatic speed dome tracking via preset
- ✓ speed dome telemetry control
- ✓ camera perspective analysis
- ✓ various filter functions for motion detection to avoid false alarms
- ✓ people recognition - analysis of upper parts of body to minimize fail alert ratio
- ✓ shadow filter - blurred objects and shadows will be ignored
- ✓ logical link between sensor fields, alarm inputs and timer
- ✓ sabotage detection (analysis of signal chararacteristic)
- ✓ integrated timer with automatic daylight saving time adjustment, calendar function
- ✓ 4 time zones, day / night switch
- ✓ four week timers with 96 possible switches for each day
- ✓ date and time display
- ✓ release of one relay contact per channel and individual programming of serial command sequences per field
- ✓ alarms can be sent via Ethernet
- ✓ text / field indication with up to 24 x 12 characters per channel
- ✓ German / English menu

Technical data

Video input	4 x FBAS 1 Vp-p, 75 Ohm BNC
Video output	4 loop-through outputs BNC
Serial interfaces	1 x RS-232, 1 x RS-422 / RS-485 (galvanic isolated)
Network interface	Ethernet 10/100 MB
Switch inputs	6 x switch input (4 alarm), N.O., N.C.
Relay outputs	6 x NO/NC
Display	6 x status LED
Colour	RAL 7035, powder-coated
Power source	9 V DC, 230 V AC via included power supply
Dimensions (WxHxD)	430 x 44 x 200 mm, 19" 1U
Weight	4,6 kg



Tracking function for speed dome control!

Ordering information

EP DMD-4	Digital 4-channel indoor / outdoor video sensor, 9 V DC

Paragon DVR series _____ page 42
ECOR DVR series _____ page 44
H.264 Mobile DVR series _____ page 46
Mobile camera series _____ page 48
DVR accessories _____ page 49
Recording capacities _____ page 50
Ordering information _____ page 52
PowerCon 4.x Network Management Software _____ page 53

DVR series' overview

	Paragon H.264 Series	Paragon MPEG-4 Series	ECOR H.264 Series	ECOR MPEG-4 Series	H.264 Mobile Series
Camera inputs	16	16	16 / 9 / 4	8 / 4	12 / 4
Number of harddisks	1 ~ 2 (removable) or 1 ~ 4 (internal)	1 ~ 2 (removable) or 1 ~ 4 (internal)	1 (removable) or 1 ~ 2 (internal)	1 (internal)	1 (removable)
Compression	H.264	MPEG-4	H.264	MPEG-4	H.264
Max. recording rate (IPS)	400	400	16-channel: 400 9-channel: 225 4-channel: 100	8-channel: 200 4-channel: 100	12-channel: 400 4-channel: 100
Built-in DVD-RW drive	❍	❍	❍	❍	-
Ethernet / LAN (broadband)	●	●	●	●	●
USB port	●	●	●	●	●
PTZ control	●	●	●*	●*	-
Audio function	●	❍	❍ (optional for 9/4-channel models)	❍	●
Loop-through function	●	●	-	-	-
HDMI output	●	-	-	-	-
Mouse operation	●	●	●	●	●
EKB 500 operation	●	●	●	●	●
Watchdog function	●	●	●	●	●
E-mail notification	●	●	●	●	●
Mobile phone streaming	●	●	●	-	-
Remote configuration	●	●	●	●	●
Graphic user interface (GUI)	●	●	●	●	●
Free DDNS service	●	●	●	●	●

● - function / feature available for this DVR series
❍ - function / feature available for selected models from this DVR series
- - function / feature not available for this DVR series
* - network only

Paragon 264x4-16 - 16-channel D1 real time H.264 digital video recorder

Features

- ✓ D1 real time recording and playback for all cameras
- ✓ HDMI video output with full HD resolution (1080p)
- ✓ latest H.264 compression technology
- ✓ user-friendly graphic user interface (GUI) with easy mouse or front panel operation
- ✓ multi-language menu operation
- ✓ express setup for quick installation in standard applications
- ✓ audio recording for all 16 channels
- ✓ separately configured HDMI 1080p and VGA/BNC main monitor outputs and additional call monitor
- ✓ individual recording settings for each channel incl. holiday calendar, express schedule and pre-alarm
- ✓ pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- ✓ snapshot search function
- ✓ data archiving via USB 2.0 port, network or built in DVD-RW drive*
- ✓ programmable motion detection area (22x16) for each channel
- ✓ local (through USB mouse) and network PTZ control
- ✓ fast network video transmission with dual stream for mobile phone streaming
- ✓ network operation independent from local operation
- ✓ event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- ✓ Watchdog function with notification options
- ✓ optional RS-485 remote control (EKB 500)
- ✓ free EverFocus DDNS service: DDNS account registration directly from DVR setup

Delivery includes IR remote control!

* feature / function depending on DVR model

Technical data

Video format	PAL / CCIR
Display format main monitor	**VGA / BNC:** 1, 4, 9, 10, 13, 16x multiscreen, PiP // **HDMI:** 1, 4, 6, 8, 9, 12, 16x multiscreen
Display format call monitor	full screen, 4x multiscreen, sequence (live)
Display format HD monitor	1920 x 1080 (full HD 1080p)
Display format VGA monitor	1024 x 768
Main/call monitor assignment	Option 1: main monitor VGA and BNC (simultaneous view) and call monitor HDMI Option 2: main monitor HDMI and call monitor VGA and BNC (simultaneous view)
Video input	16 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	16 loop-through outputs, 1 Vp-p at 75 Ohm, BNC 1 main monitor output, 1 Vp-p at 75 Ohm, BNC 1 main monitor output VGA 1024x768, 15-pin Sub-D 1 call monitor output, 1 Vp-p at 75 Ohm, BNC 1 HDMI output 1920 x 1080 (1080p)
Video compression	H.264
Harddisk storage	up to 4x internal 8,9 cm (3,5") SATA harddisks OR up to 2x removable 8,9 cm (3,5") SATA harddisks*
Recording resolution	704 x 576, 704 x 288, 352 x 288
Recording rate	1 ~ 400 IPS for all resolutions individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)
Recording modes	continuous, schedule (with holiday calendar) or event recording
Playback search	via date/time or event / smart search incl. snapshot search function
Video pause	yes
Video loss detection	yes
Motion detection	yes, with configurable detection area (22x16) and sensitivity
Event log	yes
Pre-alarm	yes
Alarm	16 alarm inputs / 4 relay outputs
Audio	16 line inputs / 1 line output
Setup	on-screen display
Control	USB mouse control, front panel control with jog/shuttle, IR remote control, network; optional: RS-485 keyboard EKB 500
Timer	built-in real time clock with automatic time synchronisation via global NTP server through Internet
Title	12-characters title generator for each camera
Archive	USB 2.0 interface, internal DVD-RW drive*
Ethernet	RJ45 network connector
Interfaces	1 x RS-232 (9-pin Sub-D) // 1 x RS-485 screw terminal connector
Password protection	3 levels
Watchdog function	for cooler fan, HDD status, HDD temperature, recording and HDD fault
Power source	100 ~ 240 V AC
Power consumption	60 W max.
Ambient temperature	0°C ~ +40°C
Dimensions (WxHxD)	430 x 95 x 410 mm
Weight	6,8 kg (w/o HDD)

Paragon 16 - 16-channel pentaplex MPEG-4 digital video recorder

Features

- ✓ user-friendly graphic user interface (GUI) with easy mouse or front panel operation
- ✓ multi-language menu operation
- ✓ latest MPEG-4 compression technology with improved picture quality
- ✓ express setup for quick installation in standard applications
- ✓ individual recording and schedule settings for each channel
- ✓ pre-alarm recording
- ✓ extended schedule setting incl. holiday calendar and express schedule
- ✓ pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- ✓ snapshot search function
- ✓ data archiving via USB 2.0 port, network or built in DVD-RW drive*
- ✓ programmable motion detection area (22x15) for each channel
- ✓ colour, brightness and contrast setting per channel
- ✓ local (through USB mouse) and network PTZ control
- ✓ Ethernet interface for remote network viewing and controlling
- ✓ fast network video transmission with dual stream for mobile phone streaming
- ✓ network operation independent from local operation
- ✓ event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- ✓ Watchdog function with notification options
- ✓ optional RS-485 remote control (EKB 500)
- ✓ free EverFocus DDNS service: DDNS account registration directly from DVR setup

Delivery includes IR remote control!

* feature / function depending on DVR model

Technical data

Video format	PAL / CCIR
Display format main monitor	1, 4, 9, 10, 13, 16x multiscreen, 2x2 zoom, PiP (live) 1, 4, 9, 10, 13, 16x multiscreen, 2x2 zoom (playback)
Display format call monitor	full screen, up to 16x multiscreen, sequence (live)
Video input	16 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	16 loop-through outputs, 1 Vp-p at 75 Ohm, BNC 1 main monitor output, 1 Vp-p at 75 Ohm, BNC / 1 main monitor output VGA 800x600, 15-pin Sub-D 1 call monitor output, 1 Vp-p at 75 Ohm, BNC 1 S-Video output mini DIN, for main monitor
Video compression	MPEG-4
Display resolution VGA output	800 x 600 (SVGA)
Harddisk storage	up to 4x internal 8,9 cm (3,5") SATA harddisks OR up to 2x removable 8,9 cm (3,5") SATA harddisks*
Recording resolution	704 x 576, 704 x 288, 352 x 288
Recording rate	1 ~ 400 IPS (352 x 288) total 1 ~ 200 IPS (704 x 288) total 1 ~ 100 IPS (704 x 576) total
	individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)
Recording modes	continuous, schedule (with holiday calendar) or event recording
Playback search	via date/time or event / smart search incl. snapshot search function
Video pause	yes
Video loss detection	yes
Motion detection	yes, with configurable detection area (22x15) and sensitivity
Event log	yes
Pre-alarm	yes
Alarm input	16 alarm inputs
Alarm output	4 relay outputs
Audio	16 line inputs / 1 line output*
Setup	on-screen display
Control	USB mouse control, front panel control with jog/shuttle, IR remote control, network; optional: RS-485 keyboard EKB 500
Timer	built-in real time clock with automatic time synchronisation via global NTP server through Internet
Title	12-characters title generator for each camera
Archive	USB 2.0 interface, internal DVD-RW drive*
Ethernet	RJ45 network connector
Interfaces	1 x RS-232 (9-pin Sub-D) // 1 x RS-485 screw terminal connector
Password protection	3 levels
Watchdog function	for cooler fan, HDD status, HDD temperature, recording and HDD fault
Power source	100 ~ 240 V AC
Power consumption	60 W max.
Ambient temperature	0°C ~ +40°C
Dimensions (WxHxD)	430 x 95 x 410 mm
Weight	6,3 kg (w/o HDD)

ECOR 264x1-16 - 16-channel pentaplex H.264 digital video recorder
ECOR 264x1-9 - 9-channel pentaplex H.264 digital video recorder
ECOR 264x1-4 - 4-channel pentaplex H.264 digital video recorder

Features

- ✓ user-friendly graphic user interface (GUI) with easy mouse or front panel operation
- ✓ multi-language menu operation
- ✓ express setup for quick installation in standard applications
- ✓ audio recording capability*
- ✓ latest H.264 compression technology
- ✓ real time recording and playback rate for all cameras
- ✓ individual recording settings for each channel
- ✓ pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- ✓ snapshot search function
- ✓ data archiving via USB 2.0 port or built in DVD-RW drive*
- ✓ programmable motion detection area (22x18) for each channel
- ✓ local (through USB mouse) and network PTZ control
- ✓ fast network video transmission with dual stream for mobile phone streaming
- ✓ network operation independent from local operation
- ✓ event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- ✓ Watchdog function with notification options
- ✓ optional RS-485 remote control (EKB 500)
- ✓ free EverFocus DDNS service: DDNS account registration directly from DVR setup

Delivery includes IR remote control and mouse!

* feature / function depending on DVR model

Technical data

	ECOR 264x1-16	ECOR 264x1-9	ECOR 264x1-4
Video format	PAL / CCIR		
Display format main monitor	1, 4, 6, 8, 9, 10, 13, 16x multiscreen, PiP	1, 4, 6, 8, 9x multiscreen, PiP	1, 4x multiscreen, PiP
Display format call monitor	1, 4, 9, 16x multiscreen, sequence	1, 4, 9x multiscreen, sequence	1, 4x multiscreen, sequence
Video input	16 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination	9 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination	4 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	16 loop-through outputs, 1 Vp-p at 75 Ohm 1 main monitor output, 1 Vp-p at 75 Ohm 1 main monitor output VGA 1024x768, 15-pin Sub-D 1 multiplex call monitor output, 1 Vp-p at 75 Ohm, BNC	9 loop-through outputs, 1 Vp-p at 75 Ohm 1 main monitor output, 1 Vp-p at 75 Ohm 1 main monitor output VGA 1024x768, 15-pin Sub-D 1 multiplex call monitor output, 1 Vp-p at 75 Ohm, BNC	4 loop-through outputs, 1 Vp-p at 75 Ohm 1 main monitor output, 1 Vp-p at 75 Ohm 1 main monitor output VGA 1024x768, 15-pin Sub-D 1 multiplex call monitor output, 1 Vp-p at 75 Ohm, BNC
Video compression	H.264		
Display resolution VGA output	1024 x 768 / 60 Hz		
Harddisk storage	up to 2x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk*		
Recording resolution	704 x 576, 704 x 288, 352 x 288		
Recording rate	1 ~ 400 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576)	1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576)	1 ~ 100 IPS for all resolutions
	1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)		
Recording modes	continuous, schedule or event recording		
Playback search	via date/time or event, smart search incl. snapshot search function		
Video pause	yes		
Video loss detection	yes		
Motion detection	yes, with configurable detection area (22 x 18) and sensitivity		
Event log	yes		
Alarm	16 alarm inputs, 4 alarm outputs	9 alarm inputs, 4 alarm outputs	4 alarm inputs, 1 alarm output
Audio	no audio functionality	4 line inputs / 1 line output*	
Setup	on-screen display with graphic user interface (GUI)		
Control	USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500		
Timer	built-in real time clock		
Title	16-characters title generator for each camera		
Archive	USB 2.0 interface, internal DVD-RW drive*		
Ethernet	RJ45 network connector		
Interfaces	1 x RS-232 (9-pin Sub-D) // 1 x RS-485 screw terminal connector		
Password protection	3 levels		
Watchdog function	for cooler fan, HDD status, HDD temperature, recording and HDD fault		
Power source	12 V DC, via external power supply 100 ~ 240 V AC		
Power consumption	40 W max.		
Ambient temperature	0°C ~ +40°C		
Dimensions (WxHxD)	355 x 71 x 353 mm		
Weight	4,0 kg (w/o HDD)		

ECOR 8 - 8-channel MPEG-4 digital video recorder
ECOR 4 - 4-channel MPEG-4 digital video recorder

Features

- ✓ user-friendly graphic user interface (GUI) with easy mouse or front panel operation
- ✓ multi-language menu operation
- ✓ latest MPEG-4 compression technology with improved picture quality
- ✓ individual recording settings for each channel
- ✓ pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- ✓ data archiving via USB 2.0 port or built in DVD-RW drive*
- ✓ programmable motion detection area (22x18) for each channel
- ✓ colour, brightness and contrast setting per channel
- ✓ PTZ control via network
- ✓ Ethernet interface for remote network viewing and controlling
- ✓ fast network video transmission through Internet Explorer or optional PowerCon 4.x software
- ✓ network operation independent from local operation
- ✓ e-mail alarm function
- ✓ Watchdog function with notification options
- ✓ optional RS-485 remote control (EKB 500)
- ✓ free EverFocus DDNS service: DDNS account registration directly from DVR setup

Delivery includes IR remote control and mouse!

* feature / function depending on DVR model

Technical data

	ECOR 8	ECOR 4
Video format	PAL / CCIR	
Display format	1, 4, 6, 9x multiscreen, sequence	full screen, quad screen, sequence
Video input	8 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination	4 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	1 main monitor output, 1 Vp-p at 75 Ohm, BNC 1 main monitor output VGA 800x600, 15-pin Sub-D	
Video compression	MPEG-4	
Display resolution VGA	800 x 600	
Harddisk storage	1 x internal 8,9 cm (3,5") SATA HDD	
Recording resolution	704 x 576, 704 x 288, 352 x 288	
Recording rate	1 ~ 200 IPS (352 x 288) total 1 ~ 100 IPS (704 x 288) total 1 ~ 50 IPS (704 x 576) total	1 ~ 100 IPS (352 x 288) total 1 ~ 100 IPS (704 x 288) total 1 ~ 50 IPS (704 x 576) total
	1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)	
Recording modes	continuous, schedule or event recording	
Playback search	via date/time or event, smart search	
Video pause	yes	
Video loss detection	yes	
Motion detection	yes, with configurable detection area (22 x 18) and sensitivity	
Event log	10.000 log entries	
Alarm input	8 alarm inputs	4 alarm inputs
Alarm output	1 relay output N.O. / N.C.	
Audio	1 input / 1 output*	
Setup	on-screen display with graphic user interface (GUI)	
Control	USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500	
Timer	built-in real time clock	
Title	16-characters title generator for each camera	
Archive	USB 2.0 interface, internal DVD-RW drive*	
Ethernet	RJ45 network connector	
Interfaces	1 x RS-232 (9-pin Sub-D) // 1 x RS-485 screw terminal connector	
Password protection	3 levels with individual user rights assignment	
Watchdog function	for cooler fan, HDD status, HDD temperature, recording and HDD fault	
Power source	12 V DC, via external power supply 100 ~ 240 V AC	
Power consumption	40 W max.	
Ambient temperature	0°C ~ +40°C	
Dimensions (WxHxD)	320 x 50 x 210 mm	
Weight	4,0 kg	

EMV 1200 - 12-channel mobile H.264 digital video recorder

Features

- ✓ H.264 compression format for efficient disk and network utilization
- ✓ special graphic user interface (GUI) design for use with small size mobile monitors
- ✓ variable recording speeds up to 400 IPS
- ✓ recording rate, resolution and quality individually adjustable for each camera
- ✓ front and rear panel video/audio outputs for easy connection and configuration
- ✓ shock and vibration-proof crimp connectors with adaptor cables
- ✓ embedded 3-axis G-sensor function with separate programmable alarm levels for X/Y and Z axis
- ✓ removable harddisk (6,35 cm / 2,5" or 8,9 cm / 3,5") for video storage
- ✓ GPS function tracks speed and geographic limits (requires optional external GPS receiver)
- ✓ thermostat-controlled heater allows extended low temperature range
- ✓ multiple interfaces: 3x USB, RS-485, RS-232, GPS port, wired Ethernet, IR remote control
- ✓ optional wireless 802.11 a/b/g interface
- ✓ 12 alarm inputs, 2 relay outputs
- ✓ 12 V DC camera power outputs for 12 cameras; interface cables to power jacks included
- ✓ shock and vibration-proof mounting kit
- ✓ data archiving via USB 2.0 port or network interface
- ✓ real time audio recording at any video recording speed
- ✓ Ethernet interface for remote network viewing and controlling

Delivery includes IR remote control!

Technical data

Video format	PAL / NTSC (auto detection)
Display format main monitor	1, 4, 9, 12x multiscreen, SEQ
Display format call monitor	full screen (live view)
Video input	12 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	2x composite main monitor output, 1 Vp-p at 75 Ohm, BNC (back panel), RCA (front) 1x composite call monitor output, 1 Vp-p at 75 Ohm, BNC (back panel)
Video compression	H.264
Harddisk storage	1x removable 6,35 cm (2,5") SATA harddisk OR 1x removable 8,9 cm (3,5") SATA harddisk (for non-automotive applications)
Recording resolution	704 x 576, 704 x 288, 352 x 288, individually adjustable for each camera
Recording rate	1 ~ 400 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576)
	individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)
Recording modes	continuous or event recording
Pre-alarm record	up to 5 s
Playback search	via date/time or event
Video pause	yes
Video loss detection	yes
Event log	yes (10.240 entries)
Alarm	12 alarm inputs N.O./N.C. // 2 alarm relay outputs 30 V DC/AC / 1 A
Audio input	12 mono (line) inputs (crimp terminal connectors) with adaptor cables to 12x RCA socket
Audio output	2 mono (line) outputs (1x RCA socket at back panel, 1 x RCA socket at front)
Camera power output	12 x 12 V DC, 4,8 A total, crimp terminal connectors with adaptor cables to 12 x 5,5mm power socket
GPS	interface for optional GPS receiver, display / record of position and vehicle speed, GPS fence function
Heater	internal heater ~20 W, thermostat-controlled, with delay function for DVR booting at low temperatures
Acceleration / G-sensor	integrated G-sensor, adjustable event trigger level for X/Y and Z axis, range 0,072 ~ 9 G
Setup	graphic user interface (GUI), optimised for display on small size monitors
Control	IR remote control, USB mouse control, optional: network, RS-485 keyboard EKB 500
Timer	built-in real time clock with automatic time synchronisation via global NTP server through Internet, automatic daylight saving time
Title	16-characters title generator for each camera, 1x 16-characters global title
Archive	to USB flash stick via USB 2.0 interface, optional via network
Ethernet	RJ45 socket, 10/100 Mbps, optional 802.11 b/g WiFi
Interfaces	1 x RS-232, 1 x RS-485, 3 x USB, 1 x GPS receiver (crimp terminal connectors with adaptor cables)
Password protection	3 levels
Watchdog function	for processing, cooler fan, HDD status, HDD temperature, GPS, G-sensor
Power source	10 ~ 36 V DC (230 V AC PS not included), built-in surge protection, programm. delay for DVR on/off relative to ignition or other contact
Power consumption (with 6,35 cm / 2,5" HD, cam. outputs not connected)	heater off: 1,5 A at 12 V DC, 0,8 A at 24 V DC / heater on: 3,3 A at 12 V DC, 1,9 A at 24 V DC standby mode (ignition OFF): 0,12 A at 12 V DC, 0,08 A at 24 V DC
Ambient temperature	-40°C ~ +55°C
Operating shock	8G, 11 ms (20 per 5 seconds max.)
Operating vibrations	5 ~ 20 Hz, 0,037° (double amplitude), 5 ~ 500 Hz, (0 to peak)
Dimensions (WxHxD)	210 x 70 x 26 mm (w/o mobile mounting kit) // 313,5 x 97,8 x 260 mm (with mobile mounting kit)
Weight	3,2 kg (w/o mobile mounting kit) // 3,65 kg (with mobile mounting kit)

EMV 400 - 4-channel mobile H.264 digital video recorder

Features

- ✓ H.264 compression format for efficient disk and network utilization
- ✓ special graphic user interface (GUI) design for use with small size mobile monitors
- ✓ variable recording speeds up to 100 IPS
- ✓ recording rate, resolution and quality individually adjustable for each camera
- ✓ front and rear panel video/audio outputs for easy connection and configuration
- ✓ shock and vibration-proof crimp connectors with adaptor cables
- ✓ embedded 3-axis G-sensor function with separate programmable alarm levels for X/Y and Z axis
- ✓ removable 6,35 cm (2,5") harddisk for video storage
- ✓ GPS function tracks speed and geographic limits (requires optional external GPS receiver)
- ✓ thermostat-controlled heater allows extended low temperature range
- ✓ multiple interfaces: 3x USB, RS-485, RS-232, GPS port, wired Ethernet, IR remote control
- ✓ optional wireless 802.11 a/b/g interface
- ✓ 4 alarm inputs, 2 relay outputs
- ✓ 12 V DC camera power outputs for 4 cameras; interface cables to power jacks included
- ✓ shock and vibration-proof mounting kit
- ✓ data archiving via USB 2.0 port or network interface
- ✓ real time audio recording at any video recording speed
- ✓ Ethernet interface for remote network viewing and controlling

Delivery includes IR remote control!

Technical data

Video format	PAL / NTSC (auto detection)
Display format main monitor	1, 4x screen, SEQ
Video input	4 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ohm termination
Video output	2x composite main monitor output, 1 Vp-p at 75 Ohm, BNC (back panel), RCA (front)
Video compression	H.264
Harddisk storage	1x removable 6,35 cm (2,5") SATA harddisk
Recording resolution	704 x 576, 704 x 288, 352 x 288, individually adjustable for each camera
Recording rate	1 ~ 100 IPS (352 x 288) 1 ~ 100 IPS (704 x 288) 1 ~ 50 IPS (704 x 576)
	individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels)
Recording modes	continuous or event recording
Pre-alarm record	up to 5 s
Playback search	via date/time or event
Video pause	yes
Video loss detection	yes
Event log	yes (10.240 entries)
Alarm	4 alarm inputs N.O./N.C. // 2 alarm relay outputs 30 V DC/AC / 1 A
Audio input	4 mono (line) inputs (crimp terminal connectors) with adaptor cables to 4x RCA socket
Audio output	1 mono (line) output (RCA socket at front)
Camera power output	4 x 12 V DC, 1,8 A total, crimp terminal connectors with adaptor cables to 4 x 5,5mm power socket
GPS	interface for optional GPS receiver, display / record of position and vehicle speed, GPS fence function
Heater	internal heater ~20 W, thermostat-controlled, with delay function for DVR booting at low temperatures
Acceleration / G-sensor	integrated G-sensor, adjustable event trigger level for X/Y and Z axis, range 0,072 ~ 9 G
Setup	graphic user interface (GUI), optimised for display on small size monitors
Control	IR remote control, USB mouse control, optional: network, RS-485 keyboard EKB 500
Timer	built-in real time clock with automatic time synchronisation via global NTP server through Internet, automatic daylight saving time
Title	16-characters title generator for each camera, 1x 16-characters global title
Archive	to USB flash stick via USB 2.0 interface, optional via network
Ethernet	RJ45 socket, 10/100 Mbps, optional 802.11 b/g WiFi
Interfaces	1 x RS-232, 1 x RS-485, 3 x USB, 1 x GPS receiver (crimp terminal connectors with adaptor cables)
Password protection	3 levels
Watchdog function	for processing, cooler fan, HDD status, HDD temperature, GPS, G-sensor
Power source	10 ~ 36 V DC (230 V AC PS not included), built-in surge protection, programm. delay for DVR on/off relative to ignition or other contact
Power consumption	with 6,35 cm (2,5") harddisk, camera outputs not connected: heater off: 0,6 A at 12 V DC, 0,3 A at 24 V DC / heater on: 2,3 A at 12 V DC, 1,2 A at 24 V DC standby mode (ignition OFF): 0,12 A at 12 V DC, 0,08 A at 24 V DC
Ambient temperature	-40°C ~ +55°C
Operating shock	8G, 11 ms (20 per 5 seconds max.)
Operating vibrations	5 ~ 20 Hz, 0,037° (double amplitude), 5 ~ 500 Hz, (0 to peak)
Dimensions (WxHxD)	178 x 50 x 199 mm (w/o mobile mounting kit / antenna) // 272 x 145 x 224 mm (with mobile mounting kit / antenna)
Weight	1,7 kg (w/o mobile mounting kit) // 2,15 kg (with mobile mounting kit)

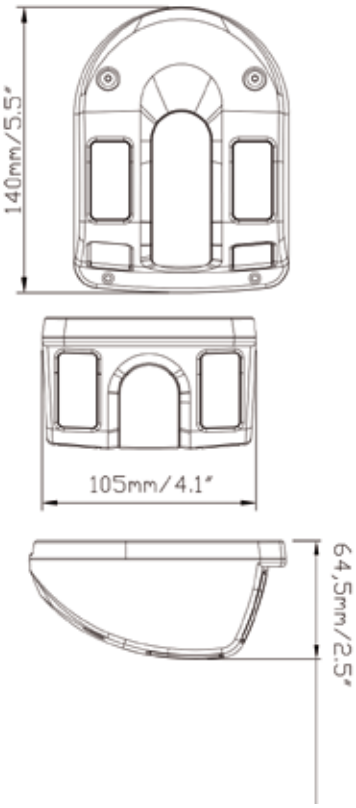
EMW 330 - 8,5 mm (1/3") day/night vandal-proof mobile camera with IR LED, high resolution

Features

- ✓ high resolution technology (560 TV lines)
- ✓ streamline wedge type chassis
- ✓ electronic day/night switching with daylight sensor
- ✓ dual position lens
- ✓ dual position IR illuminators provide clear images up to approx. 15 metres
- ✓ vandal-proof IP67 weatherproof housing
- ✓ wall / ceiling mounting options - no bracket required
- ✓ built-in heater

Technical data

Sensor	8,5 mm (1/3") SONY Super HAD CCD
Scanning system	625 TV lines, 50 fields / sec.
Picture element	752 (H) x 582 (V) (PAL)
Horizontal resolution	520 TV lines
Sensitivity	0,4 lux / F = 1.2 (IR LED off); 0 lux (IR LED on)
S/N ratio	> 48 dB (AGC off)
Electronic shutter	1/50 ~ 1/100.000
Video output	BNC, 1,0 Vp-p, 75 Ohm
Gamma correction	0,45
Lens	f=3,6mm (further lenses see table page 35)
Back light compensation	yes
Auto white balance	yes (2500 ~ 9000°K)
AGC	yes
Sync. mode	internal
Day/night switching	electronic day/night switching with daylight sensor
Heater	built-in heater
IR LED	40 LED in 2 arrays
IR LED lifetime	up to 20.000 h
Recommended object distance	approx. 15 metres* (depending on reflections in scenery)
IR wavelength	850 nm
Weatherproof rating	IP 67
Mounting options	wall / ceiling mounting options, no bracket required
Viewing direction	dual position (forward / downward)
IR LED direction	dual position (forward / downward)
Power source	12 V DC +/- 15%
Power consumption	8,4 W max. (heater and IR LED on)
Ambient temperature	-40°C ~ +50°C
Dimensions (WxHxD)	105 x 65 x 140 mm
Weight	600 g



* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

Ordering information

EMW 330 / P-3	8,5 mm (1/3") day/night vandal-proof mobile camera with IR LED, with lens f=3,6mm, high resolution, 12 V DC
AP12A122E0	Power supply 230 V AC / 12 V DC, 600 mA, stabilized, switched

- **EPR 100** - harddisk reader for IDE harddisks
- **EPR 110** - harddisk reader for SATA harddisks
- **EDA 957 EP-264** - harddisk tray for SATA harddisks
- **EMV 400 HT** - harddisk tray for EMV 400 mobile DVR harddisks
- **EDA-USBEXT** - USB extender for USB mouse / DVR connection
- **EDA-Rack** - 482 mm (19") rack for ECOR DVR and video server ERS-4

Technical data EPR 100 / EPR 110

	EPR 100	EPR 110
DVR models	EDR 1640 / 920 EDR 810 H / 810 M / 410 H / 410 M EDSR 1600 / 900 / 600 EDSR 400 H / 400 M / 100 H / 100 M	Paragon 264-16* Paragon 16* ECOR 264-16 / 264-9 / 264-4* * only models with removable harddisks!
Multiplexer models (1-ch. DVR)	4BDX, 4CDX, 8CDX	-
HDD interface	1 x 8,9 cm (3,5") IDE harddisk	1 x 8,9 cm (3,5") SATA harddisk
LED	2 LED for power and disk activity indication	
Lock	HDD tray lock	
Interface	USB 2.0, type B connector	
Operation	mouse-controlled graphic user interface (GUI)	
Search functions	via segment list, date/time and slidebar to move video pointer	
Archive	save still image to BMP or JPEG file print still image capture video to AVI file or archive to proprietary format file capture metadata to text or binary file	
Power	6-pin 5V / 12 V DC, 230 V AC via included power supply, 50/60 Hz, 30 W max.	
Ambient temperature	0°C ~ +50°C	
Dimensions (WxHxD)	155 x 47 x 277 mm	
Weight	1,35 kg	

EDA 957 EP-264 - harddisk tray for SATA HDDs

DVR models	Paragon 264-16 / Paragon 16 ECOR 264-16 / 264-9 / 264-4 EMV 1200

EDA-USBEXT - USB Extender

Power	5 V DC with external power adaptor, ~50 mA, depending on USB mouse type
Cable type	Cat5, Cat5e, Cat6 standard network patch cable, 60 m max.
USB mouse type	USB 1.1, type depending on DVR type
Weight	200 g (w/o power supply)

EMV 400 HT - harddisk tray for mobile HDDs

DVR model	EMV 400

EDA-Rack - 482 mm (19") rack for ECOR / ERS-4

Material	aluminium, black
Application	1 x ECOR 4 / ECOR 8 or 1 x ERS-4
Dimensions (WxHxD)	482 x 89 x 223 mm, 19" 2U
Weight	900 g

Recording capacities

Recording capacity (days) for Paragon / ECOR 264 DVRs - PAL mode recording with 500 GB HD, resolution: 704x576

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		SUPERIOR	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
400	2,6	1,8	2,2	1,5	2,09	1,2	1,8	1,2	1,4	1,5	1,3	0,8
200	5,3	3,6	4,5	2,9	4,0	2,5	3,6	2,2	2,9	1,9	2,6	1,6
100	11	7	9	6	8	5	7	4	6	4	5	3
96	11	8	9	6	8	5	8	5	6	4	5	3
64	16	11	14	9	13	8	11	7	9	6	8	5
50	21	14	18	12	16	10	14	9	12	7	11	6
32	33	23	28	18	25	16	23	14	18	12	16	10
16	66	45	56	36	50	31	45	28	36	23	33	20
8	132	90	111	72	100	63	90	56	72	47	66	40
4	263	181	223	145	201	126	181	111	145	93	132	80

Recording capacity (days) for Paragon / ECOR 264 DVRs - PAL mode recording with 500 GB HD, resolution: 704x288

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		HIGHEST	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
400	4,0	2,6	3,6	2,4	3,4	2,3	3,2	2,2	2,9	1,7	2,4	1,5
200	8,0	5,2	7,2	4,8	6,9	4,6	6,4	4,5	5,8	3,5	4,8	3,0
100	16	10	14	10	14	9	13	9	12	7	10	6
96	17	11	15	10	14	10	13	9	12	7	10	6
64	25	16	23	15	22	14	20	14	18	11	15	10
50	32	21	29	19	28	18	26	18	23	14	19	12
32	50	32	45	30	43	29	40	28	36	22	30	19
16	100	65	90	60	86	57	80	56	72	44	60	38
8	201	129	181	121	172	115	161	111	145	87	121	76
4	402	258	362	241	344	230	322	223	289	174	241	152

Recording capacity (days) for Paragon / ECOR 264 DVRs - PAL mode recording with 500 GB HD, resolution: 352x288

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		HIGHEST	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
400	12,1	2,9	11,1	3,5	10,3	3,4	8,5	2,7	6,9	2,3	5,2	2,3
200	24,1	5,8	22,3	7,1	20,7	6,7	17,0	5,5	13,8	4,7	10,3	4,5
100	48	12	45	14	41	13	34	11	28	9	21	9
96	50	12	46	15	43	14	35	11	29	10	22	9
64	75	18	70	22	65	21	53	17	43	15	32	14
50	96	23	89	28	83	27	68	22	55	19	41	18
32	151	36	139	44	129	42	106	34	86	29	65	28
16	301	72	278	88	258	84	213	68	172	58	129	57
8	603	145	556	176	517	168	426	136	344	117	258	113
4	1206	289	1113	353	1033	336	851	273	689	233	517	226

* Image condition: simple = low-noise image content

complex = frequent modification / much motion / slight noise

Note: The indicated values are for reference only. With heavy noise, an image may require 6 times the storage capacity!

Recording capacity (days) for Paragon / ECOR MPEG4 DVRs - PAL mode recording with 500 GB HD, resolution: 704x576

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		SUPERIOR	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
100	8,3	5,3	7,7	4,8	6,8	3,9	6,1	3,4	4,5	2,6	3,6	2,3
96	8,6	5,5	8,0	5,0	7,1	4,0	6,3	3,5	4,6	2,7	3,8	2,4
64	13	8	12	8	11	6	10	5	7	4	6	4
50	17	11	15	10	14	8	12	7	9	5	7	5
32	26	16	24	15	21	12	19	11	14	8	11	7
16	52	33	48	30	43	24	38	21	28	16	23	14
8	103	66	96	60	85	48	76	43	56	33	45	29
4	207	132	193	121	170	96	152	85	111	66	90	58

Recording capacity (days) for Paragon / ECOR MPEG4 DVRs - PAL mode recording with 500 GB HD, resolution: 704x288

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		SUPERIOR	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
200	8,0	4,5	7,0	3,8	6,2	3,5	10,7	3,8	5,5	3,5	5,3	2,5
100	14,5	8,3	12,9	7,2	11,8	6,8	10,7	6,4	10,2	6,1	9,6	4,8
96	15	9	13	8	12	7	11	7	11	6	10	5
64	23	13	20	11	18	11	17	10	16	10	15	8
50	29	17	26	14	24	14	21	13	20	12	19	10
32	45	26	40	23	37	21	33	20	32	19	30	15
16	90	52	80	45	74	43	67	40	63	38	60	30
8	181	103	161	90	148	85	134	80	127	76	121	60
4	362	207	322	181	295	170	268	161	254	152	241	121

Recording capacity (days) for Paragon / ECOR MPEG4 DVRs - PAL mode recording with 500 GB HD, resolution: 352x288

Recording rate (IPS)	Image quality / image condition*											
	LOWER		LOW		BASIC		STANDARD		HIGH		SUPERIOR	
	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex	simple	complex
400	12,1	3,8	10,4	4,0	9,1	3,2	7,6	2,6	6,4	2,3	5,2	2,2
200	23,0	7,2	19,0	7,4	17,0	5,9	14,2	4,8	12,0	4,4	9,8	3,8
100	41	13	36	13	32	11	26	9	23	8	18	7
96	43	14	38	13	33	12	27	9	24	9	19	8
64	65	21	57	20	50	18	41	14	36	13	28	11
50	83	27	72	26	64	23	53	18	46	16	36	14
32	129	42	113	40	100	35	82	28	72	26	57	23
16	258	84	226	80	201	71	164	57	145	51	113	45
8	517	168	452	161	402	142	329	113	289	102	226	90
4	1033	336	904	322	804	284	658	226	579	204	452	181

* Image condition: simple = low-noise image content

complex = frequent modification / much motion / slight noise

Note: The indicated values are for reference only. With heavy noise, an image may require 6 times the storage capacity!

Ordering information

Ordering information Paragon 264x4 series' digital video recorders

EPARA 264x4-16-FIA / HD no. / size	16-channel D1 real time H.264 DVR Paragon, up to 4 built-in harddisks, with audio function, w/o DVD-RW drive
EPARA 264x4-16-DIA / HD no. / size	16-channel D1 real time H.264 DVR Paragon, up to 4 built-in harddisks, with audio function, with built-in DVD-RW drive
EPARA 264x4-16-FRA / HD no. / size	16-channel D1 real time H.264 DVR Paragon, up to 2 removable harddisks, with audio function, w/o DVD-RW drive
EPARA 264x4-16-DRA / HD no. / size	16-channel D1 real time H.264 DVR Paragon, up to 2 removable harddisks, with audio function, with built-in DVD-RW drive

Ordering information Paragon series' digital video recorders

EDR-16-FI / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 4 built-in harddisks, w/o DVD-RW drive
EDR-16-DI / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 4 built-in harddisks, with built-in DVD-RW drive
EDR-16-FIA / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 4 built-in harddisks, with audio function, w/o DVD-RW drive
EDR-16-DIA / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 4 built-in harddisks, with audio function, with built-in DVD-RW drive
EDR-16-FR / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 2 removable harddisks, w/o DVD-RW drive
EDR-16-DR / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 2 removable harddisks, with built-in DVD-RW drive
EDR-16 FRA / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 2 removable harddisks, with audio function, w/o DVD-RW drive
EDR-16-DRA / HD no. / size	16-channel pentaplex MPEG-4 DVR Paragon, up to 2 removable harddisks, with audio function, with DVD-RW drive

Ordering information ECOR 264x1 series' digital video recorders

ECOR 264x1-16-FI / HD no. / size	16-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, w/o DVD-RW drive
ECOR 264x1-16-DI / HD no. / size	16-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with built-in DVD-RW drive
ECOR 264x1-16-FR / HD no. / size	16-channel pentaplex H.264 DVR ECOR, up to 1 removable harddisk, w/o DVD-RW drive
ECOR 264x1-9 -FI / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, w/o DVD-RW drive
ECOR 264x1-9-DI / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with built-in DVD-RW drive
ECOR 264x1-9-FIA / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with audio function, w/o DVD-RW drive
ECOR 264x1-9-DIA / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with audio function, with built-in DVD-RW drive
ECOR 264x1-9 -FR / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 1 removable harddisk, w/o DVD-RW drive
ECOR 264x1-9-FRA / HD no. / size	9-channel pentaplex H.264 DVR ECOR, up to 1 removable harddisk, with audio function, w/o DVD-RW drive
ECOR 264x1-4 -FI / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, w/o DVD-RW drive
ECOR 264x1-4-DI / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with built-in DVD-RW drive
ECOR 264x1-4-FIA / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with audio function, w/o DVD-RW drive
ECOR 264x1-4-DIA / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 2 built-in harddisks, with audio function, with built-in DVD-RW drive
ECOR 264x1-4 -FR / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 1 removable harddisk, w/o DVD-RW drive
ECOR 264x1-4-FRA / HD no. / size	4-channel pentaplex H.264 DVR ECOR, up to 1 removable harddisk, with audio function, w/o DVD-RW drive

Ordering information ECOR series' digital video recorders

ECOR-8 / HD size	8-channel MPEG-4 DVR ECOR with built-in harddisk
ECOR-8 D / HD size	8-channel MPEG-4 DVR ECOR with built-in harddisk and built-in DVD-RW drive
ECOR-8 A / HD size	8-channel MPEG-4 DVR ECOR with built-in harddisk and audio function
ECOR-8 AD / HD size	8-channel MPEG-4 DVR ECOR with built-in harddisk, audio function and built-in DVD-RW drive
ECOR-4 / HD size	4-channel MPEG-4 DVR ECOR with built-in harddisk
ECOR-4 D / HD size	4-channel MPEG-4 DVR ECOR with built-in harddisk and built-in DVD-RW drive
ECOR-4 A / HD size	4-channel MPEG-4 DVR ECOR with built-in harddisk and audio function
ECOR-4 AD / HD size	4-channel MPEG-4 DVR ECOR with built-in harddisk, audio function and built-in DVD-RW drive

Ordering information mobile series' digital video recorders

EMV 1200 NH	12-channel H.264 mobile DVR, w/o harddisk
EMV 1200-2,5 / HD size	12-channel H.264 mobile DVR, with 1 removable harddisk 6,35 cm (2,5") for automotive applications
EMV 1200-3,5 / HD size	12-channel H.264 mobile DVR, with 1 removable harddisk 8,9 cm (3,5") for non-automotive applications
EMV 400 NH	4-channel H.264 mobile DVR, w/o harddisk
EMV 400 / HD size	4-channel H.264 mobile DVR, with 1 removable harddisk 6,35 cm (2,5")

PowerCon 4.x - network management software

Features

- ✓ unlimited number of managed systems (DVRs, Megapixel / network cameras, video servers, 3rd party applications)
- ✓ live and playback view
- ✓ local storage and printout of video data or single pictures on client PC
- ✓ multi-window design with scalable video windows
- ✓ free definable multiviews with up to 16 DVR systems or network cameras, also mixed display of different DVRs (max. 256 cameras in 1 multiview with 16 x 16-channel DVR*)
- ✓ mapview: visualisation of CCTV system in areas or buildings with free scalable maps, graphics (BMP or JPG format) or active symbols
- ✓ remote DVR configuration (EDR DVR series only)
- ✓ remote configuration of EverFocus network cameras and video servers
- ✓ EKB 200 joystick control
- ✓ POS module for retail applications (optional)
- ✓ GPS module for object tracking (optional)
- ✓ network alarm reception and management
- ✓ multi-monitor support (depending on PC configuration)
- ✓ advanced access rights management with individual user rights for functions and system access
- ✓ network monitor for visualisation of network traffic
- ✓ system checker: integrated background port checker with alarm function for availability of DVRs, cameras and video servers in network
- ✓ support of external program starts
- ✓ basic feature support for browser-based 3rd party applications

* function requires specific PC + network preconditions - please contact your sales partner for further details!

System requirements

Processor	PC Pentium IV (1.6 or higher) / AMD Athlon (1.8 or higher)
Operating system	Windows XP, service pack 2, .NET Framework 2.0, service pack 1
VGA card	32 MB min., 16,7 million colours, with DirectX 9.0C support
USB	2.0 interface
Memory	512 MB RAM 250 MB free HD space for installation min. 10 GB free HD space for storage
Mediaplayer	Microsoft mediaplayer version 8.x or higher
Further	DirectX 9.0C
Supported DVRs	EDR 1600 / 400* EDSR 100 / EDSR 400 H/M / EDSR 1600 / 900 / 600* EDR 1640 / 920 / 1610 A/D / 910 A/D / 410 D / 810 H/M / 410 H/M Paragon 264 DVR series / Paragon DVR series (from version 4.3) ECOR 264 DVR series / ECOR DVR series (from version 4.3) * latest firmware version
Supported network cameras	EAN 600 / EAN 800* / EZN 850* / EAN 850 A* / EAN 800 A* / EAN 800 AW* / EDN 850 H* / EDN 800 T* / EPN 3600* * from version 4.3, incl. recording function
Supported Megapixel cameras	EAN 1350* / EAN 900* / EQN 2200* * from version 4.3, incl. recording function
Further supported devices	video servers EVS 400 / EVS 100 / ERS-4 / EVS 200 A / EVS 200 AW network multi I/O controller EPS 100

For further PowerCon 4.x details, please refer to page 20 of the NeVio IP catalogue part!

Ordering information

PowerCon 4.x	PowerCon 4.x single client version with CM stick
PowerCon 4.x update	PowerCon 4.x update version for PowerCon Pro and PowerCon station (serial number of existing version required)
EPS-4 S-X (license no.)	PowerCon 4.x multi-client network license for 5 / 10 / 15 / 25 users
EPS POS-X (POS device no.)	PowerCon POS module for 1 / 4 / 8 POS devices (graphic text display EDA 911 required!)
EPS GPS-BM 10	PowerCon GPS module including 10 x vehicle license (GPS receiver EDA GPS required!)

FH 7519 M - 48 cm (19") TFT monitor with metal housing and anti-reflective protection glass
FH 7519 EB - 48 cm (19") TFT monitor, HD-ready
FH 7517 EB - 43 cm (17") TFT monitor, HD-ready

FH 7519 M

FH 7519 EB

FH 7517 EB

Technical data

	FH 7519 M	FH 7519 EB	FH 7517 EB
LCD display	48 cm (19") TFT LCD panel	48 cm (19") active matrix TFT LCD panel	43 cm (17") active matrix TFT LCD panel
Viewable size (HxV)	376 x 301 mm	376 x 301 mm / 5:4	338 x 270 mm / 5:4
Contrast ratio (typ.)	800:1		
Brightness (typ.)	300 cd / m^2		
Response time (tr/tf) (typ.)	5 ms		
Display colour	16,7 million		
Pixel pitch (HxV)	0,297 x 0,297 mm	0,294 x 0,294 mm	0,264 x 0,264 mm
Max. resolution	1280 x 1024		
Horizontal frequency	31 K ~ 80 KHz		
Vertical frequency	56 Hz ~ 75 Hz	60 Hz ~ 75 Hz	56 Hz ~ 75 Hz
Viewing angle H/V	160° / 135°	160° / 150 °	160° / 140°
Display options	Full screen / PiP (Picture in Picture) / PoP (Picture on Picture) mode		
Video inputs	2 x FBAS video 1,0 Vp-p, BNC, with loop-through, automatic 75 Ohm termination VGA, 15-pin D-Sub 1 x HDMI		
Audio	2 x line in cinch (assigned to BNC 1/2) / line out 3,5mm stereo jack (assigned to VGA), 2 internal speakers 2,5 W (max.)		
OSD menu	All modes: colour, brightness, contrast, H-pos., V-pos., V-size, H-size, clock, phase, colour temp., user colour R/G/B, OSD H-pos. / V-pos., volume, language (EN/DE/FR/IT/ES), load default,		
Power input	12 V DC / 3A, via external power supply 100 ~ 240 V AC		
Power consumption	35 W (max.), <1W in power saving mode		
Power management	VESA DPMS, DDC1 / 2B compatible		
Operating condition	temperature: 0°C ~ +40°C / humidity: 10 ~ 85%		
Storage condition	temperature: -20°C ~ +60°C / humidity: 10 ~ 85%		
Dimensions (WxHxD)	415 x 360 x 73 mm (w/o stand base)	420 x 360 x 60 mm (w/o stand base)	374 x 327 x 54 mm (w/o stand base)
Weight	8,0 kg	6,0 kg	5,8 kg
Mounting	VESA compatible mount 100 x 100 mm / 75 x 75 mm stand base not included	stand base included, VESA compatible mount 75 x 75 mm	
Mounting accessories	BA DW 140 (stand base) BA DW 151 (wall / table mount) BA DW 170 / 171 (wall mount) BA DW CM2 (ceiling mount) BA RK 19M (482mm / 19" rack mount bracket)	BA DW 151 (wall / table mount) BA DW 170 / 171 (wall mount) BA DW CM2 (ceiling mount)	

EN 220 - 14 cm (5,6") TFT LCD monitor with service kit
EN 200 - 14 cm (5,6") TFT LCD monitor
ECS 7710 T - 26 cm (10,4") TFT touchscreen control panel with DVR / PTZ control
ECS 7710 C - 26 cm (10,4") TFT touchscreen control panel with DVR / PTZ control

EN 220

EN 200

Technical data

	EN 220	EN 200
Screen size	87 x 116 mm (5,6")	
Effective display area	83,52 x 111,36 mm	
Dot matrix	320 x 240	
Pixel distance	0,116 x 0,348	
Brightness	270 cd / m^2	
Video input	1 Vp-p FBAS	
Audio input	50 mV (min.), stereo	
Audio output	built-in 4cm, 200 mW speaker, stereo earphone	
Control	brightness, contrast, colour, volume	
Power source	9 ~ 20 V DC, via included power supply 230 V AC	
Power consumption	8 W max. at 12 V DC	
Ambient temperature	0°C ~ +50°C	
Colour casing	black	
Dimensions (WxHxD)	162 x 131 x 54 mm	
Weight	2,95 kg incl. service kit	482 g
Delivery scope service kit	bag, accumulator, charger, mains supply, cables	

ECS 7710 T

ECS 7710 C

Technical data

	ECS 7710 T	ECS 7710 C
Display size	211 x 158 mm (10,4")	
Display resolution	VGA 640 x 480, 65.536 colours	
Controller hardware	32-bit RISC-CPU, 133 MHz, 8 MB	
Interfaces	2 x USB, 1 x RS-232, 2 x RS-485	
Video input	4 x BNC FBAS, 75 Ohm terminated	
Casing	aluminium / steel	
Power input	12 V DC / 24 V DC, 650 mA typical, 1,1 A max.	
Operating temperature	0°C ~ +50°C	
Dimensions (WxHxD)	302 x 217 x 73 mm	361 x 297 x 69 mm, cutout 299,5 x 227,5 mm
Weight	3,0 kg	3,2 kg
Mounting	desktop version, standard VESA mount 75/100 mm	built-in version, cutout 299,5 x 227,5 mm
Accessories	stand base BA DW 140 brackets BA DW 151 / 170 / 171	ECS HCS 10 - sleeve for dry wall or in-wall mounting

- **BA DW 151** - wall mount arm with gas spring
- **BA DW 170** - wall mount bracket with 3-axis adjustment
- **BA DW 171** - wall mount bracket with 2-axis adjustment
- **BA DW CM2** - ceiling mount adaptor
- **BA DW 140** - stand base for TFT monitor ECS 7710 T
- **ECS HCS 10** - sleeve for dry wall or in-wall mounting for TFT monitor ECS 7710 C

Technical data BA DW 151

Material	iron/plastic, powder-coated
Colour	black
Length	569 mm
Weight	3,95 kg
Max. loads	8 kg
Monitor mount	75x75mm VESA standard
Application	with TFT monitors FH 75** and TFT monitor ECS 7710 T

Technical data BA DW 170 / BA DW 171

	BA DW 170	BA DW 171
Material	iron / plastic, powder-coated	
Colour	black	
Distance to monitor	142 mm	115 mm
Weight	1,25 kg	1,05 kg
Max. loads	12 kg	
Monitor mount	75x75mm VESA standard	
Swivel	left & right and up & down 180° LCD monitor swivel 270°	left & right or up & down 180° LCD monitor swivel 270°
Application	with TFT monitors FH 75** and TFT monitor ECS 7710 T	

Technical data BA DW 140

Material	steel, ABS black
Dimensions (WxHxD)	225 x 240 x 170 mm
Weight	1,4 kg
Monitor mount	75x75 mm VESA standard
Application	with TFT monitor ECS 7710 T, TFT monitor FH 7519 M 75mm VESA standard compatible monitors

Technical data ECS HCS 10

Material	steel
Outer dimensions (WxH)	345 x 267 mm
Inner dimensions (WxH)	325 x 248 mm
Depth	65 mm
Weight	2,6 kg
Application	with TFT monitor ECS 7710 C

Technical data BA DW CM2

Material	steel
Colour	black
Length	500~900 mm adjustable
Adjustment	left / right 360° up / down 135° depending on monitor
Monitor mounting	VESA standard 75/100 mm
Max. loads	15 kg
Weight	3,7 kg
Application	with TFT monitors FH 75** and TFT monitor ECS 7710 T

EIR 100 - LED infrared illuminator for EZ 650 / EZN 850

Image: EZ 650 with additional IR illuminator kit EIR 100

Technical data EIR 100

	EIR 100
Wave length	850 nm
Beaming angle	30° each (total 30~90° adjustable incl. camera
Max. range*	40 ~ 70 m (incl. camera)
Colour	silver
Protection class	IP 66
Power source	12 V DC, through EZ 650 / EZN 850 power output
Power consumption	17 W max.
Ambient temperature	-40°C ~ +50°C
Dimensions	100 x 290 x 200 mm (HxWxD)
Weight	750 g
Remarks	Application with EZ 650 and EZN 850 only!

EIR 50 - LED infrared illuminator
EIR 20 - LED infrared illuminator

EIR 50

EIR 20

Technical data EIR 50 / EIR 20

	EIR 50	EIR 20
Wave length	850 nm	
Beaming angle	20°	45°
Max. range*	50 m	20 m
Colour	silver	
Protection class	IP 66	
Power source	12 V DC	
Power consumption	6 W max.	
Ambient temperature	-10°C ~ +50°C	
Dimensions	80 x 80 mm (Ø x H)	
Weight	330 g	

* The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

EDA 997 A - RS-485 unidirectional data distributor / converter
EL GB 001 - video ground loop isolator
RG-59 2S - RG 59 cable with 2x 0,75 mm low voltage cable
AP12MP01 - 12 V DC / 4A multiple power supply
Power supplies

Technical data EDA 997 A

Signal input	manually switchable: 1 x RS-485 simplex, screw terminal or 1 x RS-232 9-pin Sub-D
Signal output	8 x RS-485 simplex, screw terminal
Power source	12 V DC / 4 W max., via included power supply 230 V AC
Dimensions (WxHxD)	482 x 44 x 99 mm, 19" 1 U
Weight	1,1 kg
Application	RS-485 star wiring for telemetry or DVR control, conversion of RS-232 input to RS-485 output

Technical data EL GB 001

Input/output impedance	75 Ohm
Bandwidth	10 MHz < 3 dB
Isolation voltage	600 VDC min.
Transient voltage suppressors	12 V RMS
Ambient temperature	0°C ~ +50°C
Dimensions	84 x 28 x 21 mm with 2 x 150 mm cable
Weight	100 g

Technical data RG59 2S

Outer diameter	9,6 mm
Video cable	RG-59 black
Low voltage cable	2 x 0,75 mm flexible, unshielded

Technical data AP12MP01

Input voltage	100 ~ 240 V AC, 80 W max.
Output voltage	11,5 V DC ~ 13,7 V DC adjustable
Output current	4 A total
Power outputs	8 x screw terminal, single protected by automatically resettable PTC-fuse 1,1 A
Housing	steel, coated
Weatherproof rating	IP 20
Ambient temperature	0°C ~ +50°C
Dimensions (WxHxD)	223 x 200 x 60 mm
Weight	1,5 kg

Technical data power supplies

	AP12A122E0	AP12D152E1	AP24A501E0	AP24A152E0	AP24A302E1
Power supply input	100 ~ 240 V AC		230 V AC		
Power supply output	12 V DC		24 V AC		
Max. current	600 mA	1500 mA	500 mA	1500 mA	3000 mA
Connector	5,5mm power socket		cable lug		5,5mm power socket
Remarks	stabilized, switched				

System Design Services

Nowadays, the level of knowledge becomes more and more essential. New technologies are more closely related to the IT world and follow or finally replace the old ones.
Therefore, we now also offer consultation services on CCTV systems design through our **Sales Engineering Team**.

Our professional and highly qualified Sales Engineers help you achieve your project goals at a cost-effective price, e.g. by assisting you in determining the appropriate equipment and layouts for any major security projects - in schools and universities, healthcare, retail and transport facilities as well as other applications.

EverFocus System Design Services include:

- CCTV Design
- CCTV Integration
- CCTV System Upgrades
- CCTV Installation Start-up
- Network Consultation

Consultation services are arranged by appointment only - for detailed information about rates and availability, please contact our Sales Engineering Team!

Contact details:

EverFocus Electronics AG
Sales Engineering Team
Fon: +49 2822 9394 0
Fax: +49 2822 9394 95
E-mail: engineering@everfocus.de

EverFocus®

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EverFocus Electronics AG
Albert-Einstein-Straße 1
D-46446 Emmerich am Rhein
Fon: +49 (0) 28 22 - 93 94-0
Fax: +49 (0) 28 22 - 93 94 -95
info@everfocus.de
www.everfocus.de